Course Description Form

1	1. Course Name:							
WoodIndustries								
4	2. Course Code:							
WO.	IN499	1 37						
-	3. Semester /	Year:						
Autu	imn semester	/ 2023-2024						
4	L. Descriptio	n Preparation Date:						
1	/ 2 / 2024							
	5. Available	Attendance Forms:						
	Attendanc	e						
(b. Number of	t Credit Hours (Total) / Number of U	Inits (Total)					
	2 Theoreti	cal + 3 practical / 3.5 units						
-	7. Course ad	ministrator's name (mention all, if m	ore than one name)					
	Name: Dr.	Karam Ali Younus ALtaee						
	Email: kar	am.youns@uomosul.edu.iq						
	Name: Ha	nan Ghanem Saadallah						
8	3. Course C	Diectives						
theo	retical:		Practical :					
- De	veloping the	student's ability to deal with	-Developing the student'	s ability t	o deal with			
sciei	ntific and tech	inical means	multiple media.	J				
- De	veloping the s	student's ability to deal with the	- Developing the student'	s ability t	o dialogue and			
Inte	rnet	-	discuss	-	-			
- De	veloping the	student's ability to deal with						
m	ultiple media.							
- De	veloping the s	student's ability to dialogue and						
disc	uss							
De	veloping the s	student's ability to deal						
econ	omically in the	ne field the job.						
9	9. Teaching	g and Learning Strategies						
Stra	tegy	-Interactive lecture, Brainstorming,						
		- Dialogue and discussion,						
		- Assigning tasks and reporting						
10	~ ~	- Assigning group work to reveal le	adership skills					
10.	Course Str	ucture		_				
W	Hours	Required Learning Outcomes	Unit or subject name	Learn	Evaluation			
ee				ing	method			
k				metho				
-	Q (1)	dia and a la	the second se	d d	Г			
1	2 theoretical	theoretical:	theoretical:	theoretic	Exams,			
	5 Flact.	terminology - a number of benefits	benefits and determinants	ne terms, -Auditor Homewor				
		limitations of bonding with glues)	glue bonding	-Style of	Keports			
		a2: Explains (what the glue bond cons	practical :	writing o				
	of and what are the reasons for Adhesive glues The							
		collapse or failure of adhesion -		blackboa				
		requirements must be met for the glue -Direct						

		perform its function)		dialogue	
		practical:		style	
		a15. Identifying (glues)		Practical	
		a16: Explains (how to bond with glue		Assignin	
		materials the banefits and disadvantage		tacke	
		of using glues		tasks	
	2 (1				Г
2	2 theoretical	theoretical:	I heoretical:	Theory :	Exams,
	3 Pract	a3: What is it (classification of physi	Hardening glues, types of	-Auditor	Homework,
		chemical and physicochemical harder	glues, additives, influenci	methods.	Reports
		processes - types of glues of natural or	factors, and forms of	-Style of	
		and industrial glues))	adhesion	writing c	
		a4: Explains (substances that are adde		The	
		improve one or more characteristics of	practical :	blackboa	
		glue in order for it to perform its func	Types of glues and metho	-Direct	
		- the factors that determine the choice	of preparing them	dialogue	
		glue, the forms of adhesion, and		style	
		factors affecting the glue process)		Practical	
		practical :		Assignin	
		I		tasks	
		a17. Understands (gums of nat		and repo	
		origin plant animal and casein)		und repo	
		al8: Explains (glues of industrial orig			
		and. Explains (glues of industrial ong			
		shoe)			
	2 the exetical	the constinual:	the exection 1.	41. a a nati a	F
3	2 theoretical	theoretical:	theoretical:	Auditor	Exams,
	5 Pract	as: identify (specifications of colum		-Auditor	Homework,
		types of wood used as columns, meth	Column timber	methods.	Reports
		of drying them and their source	practical :	-Style of	
		methods of scraping columns and t	Manufacture of sawn woo	writing c	
		importance, and structuring colu	panels	The	
		before treatment with preservatives)		blackboa	
		a6: Explains (the division		-Direct	
		preservatives, methods of using them,		dialogue	
		the causes of the collapse of colu		style	
		treated with preservatives)		Practical	
		practical		Assignin	
		a19: Number of published plates and		tasks	
		their sections. A20: Explains (the numb		and repo	
		and tools used in manufacturing and th		•	
		benefits of each, with an explanation of			
		how to use them in the laboratory)?			
Δ	2 theoretical	theoretical:	theoretical:	theoretic	Exams.
- T	3 Pract	a 7: Identify (its importance, types	Mine timber	-Auditor	Homework
		mine timber, and desired requirements	practical :	methods	Doporto
		mine timber)	Manufacture of sawn woo	-Style of	Reports
		a8: Number of (types of wood used	nanels	writing o	
		mines and the importance of peeling	Pullelo	The	
		drving them)		hlackhoa	
		nractical ·		Diract	
		practical.		-Dilect	
		a2 1. Identify (manufacturing stag		atula	
		segmentation, longitudinal sawing,		style	
		transverse cutting)		Practical	
		a22: What is (the drying, leveling and		Assignin	
		flattening stage)		tasks	

				and repo	
5	2 theoretical	theoretical:	theoretical:	theoretic	Exams,
-	3 Pract	b 1: Distinguish (classification of rail	Railway sleepers	-Auditor	Homework,
		sleepers, what are the reasons for t	practical :	methods,	Reports
		spread and the disadvantages of their u	Manufacture of boards and	-Style of	rtop or to
		factors that help increase the life	drying of sawn boards	writing o	
		railway sleepers)		The	
		b2: Compare (types of wood used		blackboa	
		railway sleepers - railway specification		-Direct	
		practical :		dialogue	
		b8: Distinguish (saws used in		style	
		process of manufacturing sawn boards)		Practical	
		b9: Compare (types of drying - drying		Assignin	
		methods		tasks	
				and repo	
6	2 theoretical	theoretical:	theoretical:	theoretic	Exams,
	3 Pract	a 9: Explains (a brief overview of the	Manufacture of sawn woo	-Auditor	Homework,
		of wood and the classification of sa	panels practical:	methods,	Reports
		boards - the machines that contribute	Manufacture of particle	-Style of	1
		the splitting process and w	board	writing o	
		considerations must be available in		The	
		drying yards)		blackboa	
		b3: The foundations for good stacking		-Direct	
		boards inside the ovens and the stage		dialogue	
		manufacturing sawn wood boards		style	
		practical :		Practical	
		a23: Explains (chipboards and		Assignin	
		reasons for preferring wood species		tasks	
		them - the primary sources involved		and repo	
		manufacturing)			
		b10: Distinguish the stages of			
		manufacturing compressed wood: the			
		stage of converting large wood, the too			
		used, and the types of wood grains			
7	2 theoretical	theoretical:	Theoretical:	theoretic	Exams,
	3 Pract	cl: How to differentiate (layer gl	Layered glued timber	-Auditor	Homework,
		compositions are made in two forms -	practical :	methods.	Reports
		benefits of layered glued compositi	Manufacture of particle	-Style of	
		and the obstacles that limit the produc	board	writing o	
		of layered glued compositions -		The	
		layered compositions differ from e		blackboa	
		other according to - a scientific visit to		-Direct	
		Preparatory School of Industry		dialogue	
		Carpentry Department)		style	
		alo: What are (the requirements		Practical	
		layer-glued compositions - the fac		Assignin	
		anecting the strength of the layer-gl		tasks	
		the monufacture of lar		and repo	
		me manufacture of layer-gl			
		compositions)			
		practical :			
		a24. Explains (the drying stage, type			
		aryers and methods of using the			
		classification, adding glue and mixing			

		the stage of preparing the mat,			
		pressing, conditioning, edge trimming			
		polishing)			
		a 25: What are the factors affecting the			
		properties of compressed wood??			
8	2 theoretical	theoretical:	theoretical:	theoretic	Exams,
Ŭ	3 Pract	a 10: What are (the requirements	Layered glued timber	-Auditor	Homework.
		layer-glued compositions - the fac	practical :	methods.	Reports
		affecting the strength of the layer-gl	Layered glued timber	-Style of	Reports
		composition - the types of wood used		writing o	
		the manufacture of layer-gl		The	
		compositions)		blackboa	
		practical :		-Direct	
		a 25: What are (the factors affecting		dialogue	
		properties of compressed wood)		style	
		b11: Compare (the benefits of la		Practical	
		glued wood?		Assignin	
				tasks	
				and repo	
9	2 theoretical	theoretical:	theoretica:	theoretic	Exams,
	3 Pract	c2: Distinguish (characteristics of	Compressed wood	-Auditor	Homework,
		wood used to produce compressed wo	production	methods,	Reports
		specifications and materials used	practical :	-Style of	
		manufacturing compressed wood)	Layered glued timber	writing o	
		a11: Explains (there are materials ad		The	
		to the board for the purpose of improv		blackboa	
		some of the board's properties - fac		-Direct	
		affecting the properties of compres		dialogue	
		wood)		style	
		practical		Practical	
		a 27: Explain (the obstacles and iss		Assignin	
		that limit the production of layer-gl		tasks	
		wood - working or manufactur		and repo	
		conditions)?			
		a28: What are (the types of wood used			
		layered compositions)			-
10	2 theoretical	theoretical:	theoretical:	theoretic	Exams,
	3 Pract	b4: Compare (the bond between wood	Cement wood panels	-Auditor	Homework,
		cement - means of reducing obstruction	practical :	methods,	Reports
		the cement hardening process - product	Coal industry	-Style of	
		of cement wood boards)		writing o	
		practical: a20: Explains (the definition of coal		l ne blaakboa	
		a29. Explains (the definition of coal what coal deposits are made of)		Direct	
		a 20: What are (types of cool)		-Dilect	
		aso. What are (types of coar)		atulo	
				Dractical	
				Assignin	
				rashgiili tashg	
				and ropo	
11	2 theoretical	theoretical	Theoretical	theoretic	Exame
11	2 Pract	c3. Compare (the most important coati	Wooden vehicle covers	-Auditor	LAamowork
	5 1 1 401	used in the field of manufacturing w	practical ·	methode	Deports
		composites - the method of manufacture	Coal industry	-Style of	Reports

		Formica) practical : c5: Distinguish (watch explanatory fil about the method of manufacturing charcoal))		writing of The blackboa -Direct dialogue style Practical Assignin tasks and repo	
12	2 theoretical 3 Pract	theoretical: a12: Explain (the destructive distillat process includes several stages) c4: Differentiate (destructive distillat of hard and soft wood - charcoal indust practical: a31: Explains (what it is and what are reasons for its production?) b12: Differentiate between (traditiona charcoal production methods and mode ovens, their advantages and disadvanta	theoretical: Destructive distillation wood practical : Charcoal	theoretic -Auditor methods, -Style of writing o The blackboa -Direct dialogue style Practical Assignin tasks and repo	Exams, Homework, Reports
13	2 theoretical 3 Pract	theoretical: a13: Introduction (a brief history of paper industry) b5: How can you (prepare wood making dough - raw materials for mak dough - a scientific visit to w factories) practical : a32: Explains (see some boards models for wood industries) b13: Compare (charcoal in Iraq and its production problems)	theoretical: Paper Industry practical : Charcoal	theoretic -Auditor methods. -Style of writing o The blackboa -Direct dialogue style Practical Assignin tasks and repo	Exams, Homework, Reports
14	2 theoretical 3 Pract	theoretical: a14: Identification (mechanical method b6: Differentiate (chemical method semi-chemical or chemical-mechan methods - wood) practical : a32: Explains (see some boards and models for wood industries)	theoretical: Dough manufactur methods practical : Field observation - field visits	theoretic -Auditor methods, -Style of writing o The blackboa -Direct dialogue style Practical Assignin tasks and repo	Exams, Homework, Reports
15	2 theoretical	theoretical:	theoretical:	theoretic	Exams,

	3 Pract	b 7: Distinguish manufacturing w cleaning wood - panels) Practical b14: Distinguish visits	of peeling an of plywoo vations - f	Woo pract Field visits	d chip industry ical : observation - field	-Auditor methods, -Style of writing of The blackboa -Direct dialogue style Practical Assignin	Homework, Reports	
							tasks and report	
11.	11. Course Evaluation							
	Evaluation N	lethods	Evaluation Date		Degree			Relative
								weight %
	Final report	theoretical +	theoretical 15 weeks			7 theoretical +		% ١٣
	pract. Report		Pract. 1-15 week			6 pract.		
	Short exam (1)		Week (3)			4 theoretical +		% ٦
	** 10 (1					2 pract.		0 ()
	Half exam (th	neoretical +	Week (9)			10 theoretical $+$		% 18
	pract.))	W_{-1} (10)			5 pract.		0/ ٦
	Short exam (.	2)	week (12)			4 meorencal +		Ÿ0 \
	Final exam (r	practical)	Evem prect			2 pract.		% 7 •
	Final exam (placucal)		Exam pract.			40		% έ.
			icilcui	100			%)	
12.	12 Learning and Teaching Resources					200		/ •
Required textbooks (curricular books, if any)			Wooden	indust	ries - Dr. Walid Abo	udi qasir		
Main references (sources)			Books related to wood industries					
Reco	mmended boo	ks and references	s (scientific	Scientific	journ	als, reports and resea	rch related	l to wood industri
journals, reports)				5	· 1			

Theoretical subject teacher: Dr. Karam Ali Younus ALtaee

Practical subject teacher: M.M. Hanan Ghanem Saadallah

Chairman of the Scientific Committee: Prof. Dr. Muhammad Younis Al-Allaf

Head of the Department of Forestry Sciences: Prof. Dr. Muzahim Saeed Al-Bek