Course Description Form

1. Course Name: Fiber Crops 2. Course Code: FICR360 3. Semester / Year: Spring second 2023/2024 4. Description Preparation Date: 1/2/2024 5. Available Attendance Forms: Presence 6. Number of Credit Hours (Total) / Number of Units (Total) $(2 \text{ theoretical} + 3 \text{ practical} = 5 \text{ hours}) \times 15 \text{ weeks} = 75 \text{ hours} / 3.5 \text{ units}$ 7. Course administrator's name (mention all, if more than one name) Name: Lect Rayan Fadhel Ahmed Email: rayanobady79@uomosul.edu.iq Name: Assist. Lect. Saddam Ibrahim Yahya Email: saddam.alobaidi@uomosul.edu.iq 8. Course Objectives Theoretical: Practical: Distinguish between fibrous crops in terms of • The student should be aware of the importance of fiber their external appearance (root - stem - leaves crops and how to produce them flowers - fruits - seeds). · For the student to imagine the reality of growing fiber · Identifying the most important successful crops in Iraq varieties grown in Iraq · For the student to become familiar with some ways and · The student will acquire skills in how to means to advance the reality of fiber crop cultivation in measure the natural properties of fibers, such as length, rank, strength, flexibility, elongation, · Identifying the most important devices used in extracting and elasticity. fiber from fibrous crops, as well as identifying the devices used in measuring the quality characteristics of cotton 9. Teaching and Learning Strategies Strategy - Interactive lecture Brainstorming - Dialogue and discussion - Assigning tasks and reporting - He is assigned to prepare a report on one of the topics of

fiber crops and it will be discussed therein.

- Assigning group work to reveal leadership skills

- Scientific visits.

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⁻ Scientific visits. - Assigning group work to reveal leadership skills

10. C	Course Structure	ture			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning	Evaluation method
_	2Theoretical 3Practical	Theoretical: A1: Defines fiber crops and divides them into several groups B1: Divides the fibrous crops into several groups 3Practical: A7: Botanically describes the main parts of the cotton crop and shows the most important varieties grown in Iraa.	theoretical: Fiber crops - their definition and division 3Practical: Botanical description of the cotton crop	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
7	2Theoretical 3Practical	Theoretical: A2: Identify important properties of filaments that are appropriate in the manufacturing process 3 Practical: B4: Determines the chemical and anatomical composition of the flax seed and fiber	Theoretical: Properties that must be present in textile fibers 3Practical: Anatomical and chemical composition of cotton seeds and fibres	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
(2)	2Theoretical 3Practical	Theoretical: C1: Explains the most important fibrous crops grown in Iraq and the world 3Practical: A8: Defines the process of scooping cotton B5: Shows the types of halvaj	Theoretical: The most important fiber crops in Iraq and the world 3Practical: scoop	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
4	2Theoretical 3Practical	Theoretical: C2: Shows the method of measuring the characteristics of the rank and length of the hairs 3Practical: A9: Botanically describes the main parts of the flax crop and shows the most important varieties grown in Iraq.	Theoretical: Natural properties of fiber 3Practical: Botanical description of flax crop	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
5	2Theoretical	Theoretical:	Theoretical:	(theoretical)	Quizzes,

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	3 Practical	C3: Explains methods for measuring the qualities of softness, toughness, elongation, and elasticity 3Practical: A10: Knows maceration and distinguishes between its types B6: Enumerate the properties of flax fibres	Supplement the natural qualities of fiber 3Practical: Maceration in flax	Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	assignments discussions
6	2Theoretical 3Practical	Theoretical: B2: Identifies the problems of growing and producing fiber crops and recommends a set of means to overcome these problems 3Practical: A11: Botanically describes the main parts of the jute crop and shows the most important varieties grown in Iraq.	Theoretical: Obstacles to the cultivation and production of fiber crops 3Practical: Botanical description of jute crop	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
7	2Theoretical 3Practical	Theoretical: D1: Distinguishes between cotton groups based on staple length and identifies the most important reasons leading to low productivity 3Practical: C4: Demonstrates how to extract jute fibers, explaining the most important specifications of these fibers	Theoretical: Cotton crop 3Practical: Maceration in jute	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
8	2Theoretical 3Practical	Theoretical: A3: He learns how to carry out the process of planting and thinning the absent shoots, as well as how to carry out the irrigation process and the use and addition of fertilizers. 3Practical: A12: Botanically describes the main parts of the jaljal crop and shows the most important varieties grown in Iraq.	Theoretical: Cotton crop service operations 3 practical: Botanical description of the jaljal crop	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions

9	2Theoretical 3Practical	Theoretical: A4: Learn about the folding process, leaf drops, and familiarize yourself with the stages of cotton manufacturing processes 3 Practical: C5: Proves how to extract jingle fibers and explains the most important specifications of these fibers	Theoretical: Supplementing cotton crop service operations 3 process: Matting in Jaljal	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
10	2Theoretical 3Practical	Theoretical: A5: He is familiar with the economic importance of linen and its service processes 3Practical: A13: Botanically describes the main parts of the sisal crop and shows the most important varieties grown in Iraq.	Theoretical: Flax crop 3Practical: Botanical description of the sisal crop	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
11	2Theoretical 3Practical	Theoretical: B3: Explains how to introduce flax into manufacturing processes 3Practical: B7: Shows the physical and chemical properties of sisal fibres	Theoretical: Stages of preparing and manufacturing linen 3 Practical: Properties of sisal fibres	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
12	2Theoretical 3Practical	Theoretical: A6: He is familiar with the economic importance of jute and jute crops and learns about the process of fiber extraction 3Practical: A14: Botanically describes the main parts of the ramie crop and shows the most important varieties grown in Iraq.	Theoretical: Jute and jute crop 3 practical: Botanical description of the ramie crop	(theoretical) Auditory methods. Style of writing on the blackboard. Dialogue style Direct. (practical) Assigning tasks and reporting.	Quizzes, assignments, discussions
13	2Theoretical 3Practical	Theoretical: A7: He is familiar with the economic importance of jute and jute crops and learns	Theoretical: The crop of sisal and ramie 3 practical: Properties of ramie	(theoretical) Auditory methods. Style of writing on the	Quizzes, assignments, discussions

		about the process of fiber extraction 3Practical: B8: Shows the physi and chemical properties of ramie fibres	cal	fibers		blackboard. Dialogue styl Direct. (practical) Assigning tas and reporting	ks	
14	2Theoretical 3Practical	Theoretical: E1: Is aware of the most important reason leading to a decreason the area and productivity of fibrocrops 3Practical: E3: Understands the practical application of how to perform the cotton ginning proceand how to separate the seeds from the fibers	e in lus	Theoretical: Solving a problem scientific visit to Nineveh Agricult Directorate) 3Practical: Solving a proble (practical applica on how to perform cotton ginning prand how to separaseeds from the file	m tions m the occess ate the	(theoretical) Auditory methods. Style of writin on the blackboard. Dialogue style Direct. (practical) Assigning task and reporting.	e ks	,
15	2Theoretical 3Practical	Theoretical: E2: Understands the correct and approprimethods for extract and separating fiber from plants 3 Practical: E4: Students share necessary informati and techniques for growing fiber crop plants in the field	iate ing rs	Theoretical: Solving a proble scientific visit to fields of the Agricultural Tec College to see the grown fibrous coas well as learning about the most important equipused in the labous especially the coasing machine to separate the from the seeds) 3Practical: Solving the problem of field observation in Iraq was methods of growthem in the field	chhical he rops, homent ratory, otton hairs blem ons of s rith wing	(theoretical) Auditory methods. Style of writion the blackboard. Dialogue styl Direct. (practical) Assigning tas and reporting	assignments, discussions ng	,
11.	Evaluation method			luation date	Degree		Percentage	
1	Report I		(we	ek) rth week	2.5		weight %	-
2	Report 2			n week	2.5	· Indiana de la constitución de	2.5	
3	Short test (1) Qu	iz		h week	2	+ 1 · · · · · · · · · · · · · · · · · ·	2	
4	Short test (2) Qu			rteenth week	2		2	
5	Short test (3) Qu			eenth week	1		1	
6	Semester test (1)		Sixt	h week	7.5		7.5	
7	Semester test (2)			enth week	7.5		7.5	
8	Final theoretical		F 50 500	l semester test	40		40	
9	Practical field pr	oject		fifteenth week	5		5	
10	Field evaluation		Thir	d and fifth week	2		2	

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11	Practical short test (1) Quiz	First week	_	
12	Short practical test (2) Quiz	Fourth week	0.5	0.5
13	Short practical test (3) Quiz	Fourteenth week	_	
14	Live drawings and homework	Weeks 6, 8, 9, 10, 11, 12 and 13	5.5	5.5
15	Final practical test	Final semester test	20	20
	Total	001	%001	%001
12.	12. Learning and Teaching Resources	sources		
Requ	Required textbooks (curricular books, if any)		Cultivation of industrial crops in Iraq (Dr. Abdul Hamid Ahmed Al-Younis, Mr. Abdul Sattar Abdullah Al-Kuraimi). Fiber crops / Dr. Iyad Talaat Shaker	s in Iraq (Dr. Abdul r. Abdul Sattar Shaker
Main	Main references (sources)			
Reco	Recommended books and references (scientific		Fiber Plants Biology, Biotechnology and Apllications / K.G. Ramawat and M.R. Ahuja	nology and and M.R. Ahuja
Elect	Electronic References, Websites	Mesopo	(2016) Mesopotamia Agriculture Magazine - Crop	agazine - Crop
		Science	,	

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