

Course Description Form

1. Course Name:	
Mechanization of Animal Production	
2. Course Code:	
ANPM224	
3. Semester / Year:	
Fall / 2023–2024	
4. Description Preparation Date:	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
5 hours / 3.5 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Khalid E. Ahmed Email: khalid.allaf@uomosul.edu.iq	
8. Course Objectives	
<p>1- Enabling the student to understand and comprehend what is related to mechanization of animal production And it 's impact on increasing animal production</p> <p>2- Enabling the student to know the types of this equipment and their uses in order to provide an optimum animal breeding environment</p> <p>3-</p>	<p>Informing the student about maintance and repair for the equipment</p>
9. Teaching and Learning Strategies	
Strategy	<p>Theoretical: - Interactive lecture / brainstorming / dialog and discussion / assignment of tasks and reports presentation of explanatory videos about the equipment operation, its components and uses</p> <p>Practical:- Assigning reports and seminars</p>

we	Hours	Required	Unit or subject	Learning	Evaluatio
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ek		Learning Outcomes	name	method	n method
1	2therotical 3practical	A1 Knows the importance and role of ventilation in animal shelters B3 Practical:- Learn the operation of ventilation systems and the distribution of openings in walls	Controlling environmental conditions inside barns	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
2	2therotical 3practical	A2 Recognizes the importance and types of cooling and heating systmes in barns practical:- using the cooling system in the fields by student	Heating and cooling in barn	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
3	2therotical	B1 Enumerates the means of transporting and delivering water in the farm and inside barns	Providing the farm with wate	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment	Quiz and midterm exam

	3practical	B3 practical:- The student calculates the daily water requirement for farm uses		and using it	
4	2therotical 3practical	B2 Distinguishes the types of drinking water sources inside barns B3 The student observes the components of the drinking source and its method of operation, maintenance	Drinking water sources for animals	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
5	2therotical 3practical	A3 The student learns about the operation of automatic milking machines B3The student watches how to operate the automatic milking parlor, how to attach cups to the animals, and how to clean the machine after operation	Automated milking machine	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
6	2therotical	A4 The student understands	Mechanization hay preparation and harvesting	Theoretical : - The audio-visual	Quiz and midterm exam

	3practical	<p>the method of operation and use of green fodder harvesting equipment and hay making</p> <p>B3 calibration of fodder harvesting and hay making machines</p>	green fodder	<p>method uses the Date show</p> <p>Practical:- Watching the equipment and using it</p>	
7	2therotical 3practical	<p>C1 The student enumerates the types of balers and machines for transporting and handling the produced bales</p> <p>B3 baler maintenance</p>	balers operation and structure	<p>Theoretical : - The audio-visual method uses the Date show</p> <p>Practical:- Watching the equipment and using it</p>	Quiz and midterm exam
8	2therotical 3practical	<p>C2 The student enumerates the types of machines available for making silage forage</p> <p>B3 Practical:- calibration and maintenance of silage making machines</p>	Theoretical: - Machines for making silage	<p>Theoretical : - The audio-visual method uses the Date show</p> <p>Practical:- Watching the equipment and using it</p>	Quiz and midterm exam

9	2therotical 3practical	A5 The student learns about the principle and method of working of all kinds of grinders B3 Controls the operation, and maintenance of feed mills	Dry feed preparation equipment	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
10	2therotical 3practical	A6 The student learns about the operation of the wool shearing mechanism B3 Controls the operation, calibration and maintenance of the wool shearing machine	Shearing wool	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
11	2therotical 3practical	B3 The student enumerates the waste collection and handling machines in farm B3 operation and maintenance of waste collecting equipment in the field	Theoretical: Animal waste disposal equipment	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
12	2therotical	A7 The	incubators and	Theoretical	Quiz and

	3practical	student learns how incubators work B3 incubator is preparing for work and maintained before operation	egg packing equipment	: - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	midterm exam
13	2therotical 3practical	C3 The student prepares a report on the operation of the machines and equipment he saw in the field during the visit B The student describes in his report the machines he was saw	Field visit	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
14	2therotical 3practical	C4 he student understands how Slaughterhouse operate and the mechanisms available in them B3 operation, maintains and repair the equipment	Equipment for slaughtering animals and preparing their meat	Theoretical : - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	Quiz and midterm exam
15	2therotical	C5 The	Refrigeration	Theoretical	Quiz and

	3practical	student understands how cooling devices work B3 Practical:- how the cooling system works and maintains	devices and the uses on the farm	: - The audio-visual method uses the Date show Practical:- Watching the equipment and using it	midterm exam
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1. Course Evaluation

No.	Test type	date	grade	Rate
1	Theoretical quiz + practical quiz	All week	5 theoretical +5 practical	10%
2	Midterm Exam (Theoretical+Practical)	Week 8	20 theoretical +10practical	30%
3	Final Theoretical Examination	Final term examination	40	40%
4	Final Practical Examination	Final term examination	20	20%
	Summation		100	100%

10. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Mechanization and equipment animal production
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Vedio from Youtub websit



