Course Description Form

Course information					
Module Title	**agricultural production technology**			**Module Delivery**	
Module Type	**Core learning activity**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	APT2140-AM				
ECTS Credits	**5**				
SWL (hr / sem)	**125**				
Module Level	UGII	**Semester of Delivery**		3	
Administration Department	AGME1986	**College**	**AGFO1964**		
Module Leader	Asist. Prof. Dr. Yousif Yakoub Hilal	**e-mail**	yousif.yakoub@uomosul.edu.iq		
Module Leader's Acad. Title	Assistant Professor	**Module Leader's Qualification**		**Ph.D.**	
Module Tutor	NA	**e-mail**	NA		
Peer Reviewer Name	NA	**e-mail**	NA		
Scientific Committee Approval Date	1/9/2025	**Version Number**	1.0		

with other subjects Relationship			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Course objectives, learning outcomes, and guiding content	
Course objectives	1- Introducing the basic concepts and principles underlying agricultural animal husbandry techniques and methods to improve productivity, and instilling values of ethical and safe handling of animals to ensure the safety and health of . consumers 2. Introduce students to the types of farm animals and their classification. Enhance students' skills in field operations related to farm animals and problem-solving in the field of animal production. 3-pes of Providing the student with basic knowledge in horticulture and ty horticultural plants, including fruits, vegetables, and ornamental plants, as well as soil preparation, modern irrigation techniques, and pest and disease control, .enabling him to understand all stages of production 4-plant nutrition and focuses on modern techniques such It includes the basics of harvest operations and marketing, -as hydroponics, protected agriculture, post .giving the student a comprehensive view of the production process

Learning outcomes for the subject	: be able to The student will LO#1 Identify the types of economic animals and their production stages and cycles, and : . develop and apply the cognitive and emotional abilities related to animal production LO#2 Acquire practical skills in establishing and managing fields, caring for animals :, and handling production records, using modern technologies. LO#3 Identify the basics of plant production, starting with soil characteristics and : progressing to mastering methods of propagation and plant plant nutrition, and .care LO#4 harvest -post Gain skills for production from farm to market and understand : . and marketing processes to ensure crop quality and economic value
Guidance contents	. : The guidance content includes theoretical to the economic importance of livestock, animal species and Introducing students classification, and field, administrative, and technical operations on animal farms, agricultural engineers capable of dealing with the aim of preparing specialized . with animal production problems using modern technologies It provides the student with a comprehensive view of all stages of plant nt production, from soil preparation, irrigation techniques, modern agriculture, pla plant management. Harvest-propagation, plant care, and post

Learning and teaching strategies	
Strategies	,Interactive lecture .1brainstorming Dialogue and .2discussion Case .3study Classroom .4experiments visits-Mini .5, .real or virtual

.weeks The student's academic load is calculated as 15			
Regular student load during the semester	63	Regular weekly student workload	4
Irregular student load during the semester	62	Irregular student study load per week	4
The student's total academic load during the semester	**125**		

Course material evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	4 and 11	LO#1 and LO#2
	Assignments	2	10% (10)	2 and 13	LO#1 and LO#3
	Projects/ Practical	3	10% (10)	5, 10and 14	All
	Report	1	10% (10)	14	LO#1, LO#2 and LO#4
Summative assessment	**Midterm Exam**	3 hours	10% (10)	7	LO#1, LO#2 and LO#3
	Final Exam	3 hours	50% (50)	16	All
Total assessment			100% (100 Marks)		

curriculum Theoretical weekly

	Material Covered
Week 1	Definition of horticulture, its importance, and its main :Horticultural Plant Production Basics of (divisions (vegetables, fruits, ornamental plants
Week 2	types of greenhouses, and , of protected agriculture The importance modern agricultural techniques the concept and types of hydroponics
Week 3	Methods of plant propagation: sexual propagation, vegetative propagation, and tissue .culture
Week 4	pruning and appropriate times Pruning trees and plants, pruning objectives, types of
Week 5	Pests and diseases, their control, harvesting and marketing of horticultural products
Week 6	Definition of field crops, types of field crops, divisions of field crop science, importance of field crops .food security in providing
Week 7	Environmental factors in Iraq and the world and their relationship to the growth of field crops, .location and surface, climate, soil, water resources Mid-term Exam
Week 8	.Classification of field crops, according to life cycle
Week 9	.Major crops in the world and Iraq
Week 10	modern methods of field crop management , Agricultural rotations
Week 11	The economic importance of livestock, challenges and future prospects for expanding production
Week 12	purpose cows, Iraqi cows and calf breeding-beef cows, dual ,Cattle types, dairy cows
Week 13	Global and local sheep and goat breeds, as well as methods of establishing sheep flocks.
Week 14	.farms Poultry, its economic importance, and the conditions for establishing and types of poultry Classification of chicken breeds
Week 15	Buffalo, general characteristics of buffalo and types of buffalo
Week 16	**Preparatory week before the final exam**

for practical application Weekly curriculum	
	Material Covered
Week 1	the horticultural facilities and learning about the horticultural facilities Field visit to
Week 2	.Learn about basic tools and equipment and prepare suitable soil mixes for planting
Week 3	Practical application of plant propagation methods, planting seeds and cuttings
Week 4	Carry out pruning of some plants and trees and identify the objectives of each type of pruning
Week 5	Determine the maturity signs of some crops, such as tomatoes or cucumbers, and .harvest the crop
Week 6	– harvesting – irrigation – pest control – seeding – Crop service operations (land preparation (harvest operations-post
Week 7	**crops** Botanical description of the most important field
Week 8	.Design of agricultural rotations and their types
Week 9	methods of field crop management and the use of smart agriculture Modern
Week 10	.How to deal with climate change in field crop production
Week 11	Field operations in livestock farms
Week 12	Milking, milking methods
Week 13	Suckling, caring for young animals, and weaning methods.
Week 14	Animal housing and construction methods
Week 15	Types of records, methods of organizing, and their importance in managing production projects

Learning and teaching resources		
	Text	**Available in the Library?**
Required Texts	NA	-
Recommended Texts	- Principles of Animal Production - Principles of gardening - Theoretical :Fundamentals of Field Crop Production and Practical	yes
Websites		

Grading scheme				
Group		Appreciation	**Marks %**	**Definition**
Success Group (50 - 100)		privilege	90 - 100	Outstanding Performance
		very good	80 - 89	Above average with some errors
		good	70 - 79	Sound works with notable errors
		middle	60 - 69	Fair but with major shortcomings
		acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)		in) Precipitate (process	(45-49)	More work required but credit awarded
		Failed	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.