

Republic of Iraq

The Ministry Of Higher
Education

& Scientific Research



University: Diyala
College: Agriculture
Department: Soil Science and
Water Resources
Stage: Second
Name: Ali Kadhim Ahmed
Academic Status: Lecturer
Qualification: PhD.
Place of work: College Of
Agriculture

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Course Instructor	Ali Kadhim Ahmed				
E-mail	alikaahdim@uodiyala.edu.iq				
Title	Agricultural equipment and machinery(AGEM213)				
Course Coordinator	The second course.				
Course Objective	- Knowing the theoretical basis of the agricultural machinery worked and scientific methods of used. - Study the effects of using of agricultural machinery on increasing agricultural production.				
Course Description	Agricultural tractors , basic tractor components , agricultural machinery, its basic components.				
Textbook	Al-Tahan, Yassen H., and Mohammed J. Al-Neama (2000) Agricultural Machinery and Equipments. Dar Al Kutub For Printing & Publishing, Mousel University, Ministry of Higher Education & Scientific Research, Iraq -Tractors and Orchard mechanization equipment (prepared by Dr. Abdul Rahman Ayoub Al-Sabbagh)				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60%
General Notes					

Course weekly Outline

week	Date	Topics Covered	Practical Part
1	2024/1/28	Basic and Derivative Units Introduction to agricultural machinery	Exercises on Basic and Derivative Units
2	2024/3/4	The type and importance of agricultural tractors	Field view of the agricultural tractor, and the agricultural equipment
3	2024/2/11	Transmission in agricultural tractor, clutch, gearbox, and differential device	knowing and watching the transmission devices in the agricultural tractor
4	2024/2/81	Power transmission devices in agricultural trator like Drawbar, P.T.O. shaft, etc.	knowing and watching the power ransmission devices in agricultural trator
5	2024/2/52	Types of internal combustion engines, engine parts	Watching the engine parts
6	2024/3/3	The difference between a two-stroke and a four-stroke engine, as well as the difference between a diesel engine and a gasoline engine	knowing the parts of the fuel system in the diesel engine and the gasoline engine
7	2024/3/10	Explanation of cooling system, electrical circuit, and lubrication system	Watching the parts of the cooling system, lubrication system and parts of the electrical circuit
8	2024/3/17	Introduction to the study of agricultural tools, types and divisions	Knowing them and watching
9	2024/3/24	Tillage equipment (plowing) primary and secondary	knowing and watching the tillage equi[ment and calculating
10	2024/3/31	Cultivating equipment	knowing and watching the cultivating equipment
11	2024/4/7	Sowing and planting equipment	knowing and watching the sowing and planting equipment
12	2024/4/14	Fertilizing equipment	knowing and watching the fertilizing equipment
13	2024/4/21	Irrigation equipment (canal opener, pumps)	knowing and watching the irrigation equipment
14	2024/4/28	Plant protection equipment	knowing and watching the
15	2024/5/5	Harvesting equipment	Watching the combine harvesting

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Instructor Signature:

Ali Kadhim Ahmed

