

Republic of Iraq

The Ministry of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Horticulture and
landscaping
Stage: First
Lecturer name: Mohammed Mezher
Scientific title: Lecturer
Qualification: Ph.D
Place of work: College of Agriculture

Flow up of implementation celli pass play

| | | | | | |
|--------------------|---|---------|-------------|--------|------------|
| Course Instructor | Mohammed Mezher Hasan | | | | |
| E-mail | mohammedmezher@uodiyala.edu.iq | | | | |
| Title | Agricultural machinery and equipment | | | | |
| Course Coordinator | Second semester (Spring) | | | | |
| Course Objective | <p>1 -Identify the most important agricultural machines and equipment 2 -The student should classify agricultural machines and equipment according to the type of use 3 -The student should differentiate between the types of agricultural machines and equipment 4 -The student should know the scientific methods used in using agricultural machines and equipment 5- The student should evaluate the productivity of agricultural machines and equipment</p> | | | | |
| Course Description | <p>1 - Introducing the science of agricultural machinery and equipment and its importance from the scientific and applied agricultural perspective. 2 - Developing the student's ability to evaluate the importance of using agricultural machinery and equipment. 3 - Teaching the student the correct methods of using agricultural machinery and equipment.</p> | | | | |
| Textbook | Agricultural machinery and equipment | | | | |
| Course Assessments | Mid Exam | Quizzes | Assignments | Report | Final Exam |
| | %10 | %10 | %10 | %20 | %50 |
| General Notes | Final grade 100% | | | | |

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| the week | the date | Topics Covered | Practical Part | Notes |
|----------|----------|---|---|-------|
| 1 | | Introduction - Types of tractors - Functions of agricultural tractors | Applying safety rules for the driver and the tractor | |
| 2 | | Main tractor parts | Watching some types of agricultural tractors. | |
| 3 | | Parts of tractor engine and function of each part | Explanation of measuring and controlling devices on the tractor. | |
| 4 | | Four-stroke and two-stroke engines and the difference between them | Duties before operating the tractor. | |
| 5 | | Fuel system for tractors and its parts | Starting the engine and how to stop it | |
| 6 | | Ignition system for agricultural tractors - its types and parts | Guidance signals for the driver while performing agricultural work | |
| 7 | | Cooling system - its types, parts and nature of work of each part | Devices that assist in operating and driving the tractor | |
| 8 | | Oil system and its parts | Locations of the gearbox levers and the upper device | |
| 9 | | Transmission devices in tractors | A look before moving the tractor | |
| 10 | | Gearbox device - Differential device - | Training on driving the tractor from rest and stopping it from moving, and reversing. | |
| 11 | | Transmission device | Stopping the tractor engine from running. | |
| 12 | | Parts of hydraulic system | How to connect and disconnect the towed machines | |
| 13 | | Soil preparation equipment | How to connect and disconnect the semi-suspended machines. | |
| 14 | | Disc plough (its components and parts) | How to connect and disconnect the suspended machines. | |
| 15 | | Types of harrows. | Daily maintenance and storage. | |

Teacher's signature
Dr. Mohammed Mezher Hasan
15/1/2025

Dean's signature
Prof. Dr. Raaed Ibrahim Khalil
15/1/2025