

## Course Description Form of Soil management

<b>1. Course Name:</b>	
<b>Soil management</b>	
<b>2. Course Code:</b>	
<b>SOMA411</b>	
<b>3. Semester / Year:</b>	
<b>Second semester/ 2024-2025</b>	
<b>4. Description Preparation Date:</b>	
<b>15/1/2025</b>	
<b>5. Available Attendance Forms:</b>	
<b>Full time (theoretical lecture and practical lecture) weekly</b>	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
<b>5 hours (2 hours theoretical and 3 hours practical per week) for 14 weeks, number of units 3.5 units</b>	
<b>7. Course Administrator's Name (Mention All, If More Than One Name)</b>	
Name: Phd. Ibraheem Ahmad Hdraes Email: <a href="mailto:ibraheeahmad@uodiyala.edu.iq">ibraheeahmad@uodiyala.edu.iq</a>	
<b>8. Course Objectives</b>	
Course Objectives: Graduating students who are able to:	1 -The total sum of all field operations and treatments that are carried out on or added to the soil to increase production for plants 2 -It includes planning, design and implementation of good soil management 3 -Conducting soil surveys 4- Study of soil management problems
<b>9. Teaching and Learning Strategies</b>	
Strategy	In-person lectures for 14 weeks, including two monthly exams, daily exams, and scientific reports
<b>10. Course Structure</b>	

## Theoretical part

<b>Week</b>	<b>Hours</b>	<b>Required learning outcomes</b>	<b>Unit or Subject Name</b>	<b>Learning Method</b>	<b>Evaluation Method</b>
1	2	Introduction: The concept and objectives	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
2	2	The importance of soil classification in its management, classification and how to benefit from it at the series level	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
3	2	Soil surveying tasks in its management	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
4	2	Sample and inspection for administrative and scientific research purposes	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
5	2	Legal description of the farm's location locally and internationally	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
6	2	Land classification for agricultural, engineering, etc. purposes	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
7	2	Land use evaluation	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
8	2	Land quality and its relationship to agricultural production	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
9	2	General conditions for plant production and their relationship to soil management and producing suitability maps	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
10	2	Agricultural courses and how to benefit from them	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
11	2	The conditions of the lands and soil of Iraq, the types	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports

		of problems and how to manage them			
12	2	The conditions of the lands and soil of Iraq, the types of problems and how to manage them	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
13	2	Diagnosing soil and land problems at the farm level	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
14	2	Farm planning is the administrative program that the specialist must present to the employer	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports
15	2	Farm planning is the administrative program that the specialist must present to the employer	<b>Soil management</b>	<b>Lecture Dialogue &amp; discussion Brainstorming</b>	Daily, monthly and final exams and daily reports

### Practical part

<b>Week</b>	<b>Hours</b>	<b>Required learning outcomes</b>	<b>Unit or Subject Name</b>	<b>Learning Method</b>	<b>Evaluation Method</b>
1	3	Methods of measuring areas on land and on the map, testing important drawing scales	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
2	3	Legal description of the location of the land and the farm: methods of description, use of GPS to determine the location of the land and the farm	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
3	3	Rules for collecting samples for all agricultural purposes	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
4	3	Using satellite and aerial photographs and topographical maps to determine sampling sites	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
5	3	Soil classification tasks in their management	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
6	3	How to use soil survey reports and maps in soil management	<b>Soil management</b>		
7	3	How to use soil survey reports and maps in soil management	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports

8	3	Linking the map unit, the classification unit, and the management unit in configuring farm fields	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
9	3	Linking the map unit, the classification unit, and the management unit in configuring farm fields	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
10	3	Practical applications on land valuation methods	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
11	3	Practical applications on land valuation methods	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
12	3	Drawing a map of pedagogical and ideological problems	<b>Soil management</b>		
13	3	Systematic diagnosis of soil problems on the farm	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
14	3	Preparing the administrative map (an attempt at application)	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports
15	3	Preparing the administrative map (an attempt at application)	<b>Soil management</b>	<b>Observation Dialogue &amp; discussion</b>	Daily, monthly and final exams and daily reports

### 11. Course Evaluation

Examination Monthly & daily exams with discussion questions inside the lecture.  
The degree of participation in the questions related to the subject.

### 12. Learning and Teaching Sources

Required Textbooks (Curricular Books, If Any)	1- Soil and Land Use Management, 1990, Dr. Walid Khale Hassan Al-Akidi. 2- Soil Management in Planning and Land Use, 1999, Dr. Muhammad Khader Abbas
Main References (Sources)	
Recommended Books and References (Scientific Journals, Reports...)	Iraqi academic scientific journals
Electronic References, Websites	

