

Republic of Iraq

The Ministry Of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University:Diyala

College:Agriculture

Department:Soil Sciences and
Water Resources

Stage:Three

Lecturer name: Ibraheem A.
Hedras

Qualification:PhD

Place of work: Soil Sciences and
Water Resources

Flow up of implementation celli pass play

Course Instructor	Ibraheem Ahmad Hedras				
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Title	Soil morphology				
Course Coordinator	Spring Semester				
Course Objective	Soil morphology studies the emergence and development of soils -1 Distinguishing between soil horizons and diagnosing them -2 Knowing the types of tarps through color -3				
Course Description	The student becomes familiar with the concept of soil morphology-1 Distinguish the alphabet and separate it from each other -2 Knowledge of the Earth's layers and composition -3				
Textbook	1-Soil Survey Staff, 2003, Soil Survey Manual, USDA 2-FAO, 1990, Guide line for soil profile description, FAO 3-Dr. Walid Khaled Al-Akidi and Dr. Shaker Mahmoud Al-Issawi. 1989. Soil morphology. ,, Ministry of Higher Education and Scientific Research. .University of Baghdad, House of Wisdom				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(20%)	(15%)	(5%)		(60%)

General Notes	Type here general notes regarding the course
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Teaching plan form for the subject

Notes	Practical material	Theoretical material	the date	the week
	Identify the morphological description form	definition of morphology and its position in the .system of pedological sciences	28/1/2024	1
	Tools used in morphological description	The ideological sciences system and the engineering system	4/2/2024	2
	Choosing the location of the soil bed and the factors affecting it	Origin and development of soil	11/2/2024	3
	Training in identifying soil textures in the laboratory and field	Soil formation factors: climate, soil temperature regimes and soil moisture	18/2/2024	4
	Studying the characteristics of soil color and spotting and training on them in the field	Topographic factor, biology	25/2/2024	5
	Studying the nature of soil construction and training on it in the field	Soil formation processes: genetic group	3/3/2024	6
	Studying the qualities of strength and welding and training on them in the field	Soil formation processes: genetic group	10/3/2024	7
	Study of the internal drainage characteristic and how to measure it in the field	Soil formation processes: general group	17/3/2024	8
	Studying some other morphological characteristics: root distribution, porosity, salinity, pH, and the method of recording them in the morphological .description document	Soil horizon, nomenclature and main horizons	24/3/2024	9
	Studying the property of slope, how to measure it, and its relationship to morphological phenomena in addition to soil depth	Diagnostic horizons: superficial	31/3/2024	10
	Study of the calcareous property and the limits of horizons	Diagnostic horizons: subsurface	7/4/2024	11

	Practice conducting a morphological description of a complete soil bed and recording the characteristics in the morphological description document	Soil morphological characteristics	14/4/2024	12
	Morphological characteristics of the world's soils	Soil morphological characteristics	21/4/2024	13
	Field observations of soil types in Iraq	Soil micromorphology - characterization - uses and applications	28/4/2024	14
	Preparing a report with a morphological description document	Study of the morphology and composition of Iraqi soils	5/5/2024	15

توقيع العميد:

توقيع الاستاذ: