Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم

University: Diyala
College: Agriculture
Department: Field Crops
Stage: second
Lecturer name: Luay Dawood Farhan
Qualification: Ph.D
Place of work: Coll. Of Agriculture

Flow up of implementation celli pass play of

Course Instructor	Luay Dawood Farhan					
E-mail	luayfarha@uodiyalay.edu.iq					
Title	Soil fertility					
Course Coordinator	Second					
Course Objective	Introduce students to the basics of soil fertility and fertile and productive soil and factors affecting the readiness of nutrients and methods of absorption by the plant and organic and inorganic fertilizers.					
Course Description	The vocabulary of curriculum included plant growth, soil relationship with plant, nutrient readiness, classification, organic matter, importance and evaluation of fertile soil status.					
Textbook	١- Havlin,J.L., Tisdale, S.L.,Nilson,W.L.,and Beaton,J.D.2005,Soil fertility and fertilizers,5th edition. USA.					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam	
	(20%)	(15%)	(5%)	__	(60%)	
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	None					

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week	Date	Topics Covered	Practical Part
1	٢٠٢٤/١/٣١	A historical overview of the science of soil fertility	Methods used for fertility evaluation
2	٢٠٢٤/٢/٧	Growth and the factors affecting it.	Carrying out a potting experiment to evaluate soil fertility
3	٢٠٢٤/٢/١٤	Establish the relationship between soil and plants	calculate the amount of fertilizer
4	٢٠٢٤/٢/٢١	The elements necessary for plant growth, their classification, and the foundations upon which	the steps for taking soil models depend
5	٢٠٢٤/٢/٢٨	Nitrogen	Determination of ready-made nitrogen
6	٢٠٢٤/٣/٦	Phosphorus	Estimation of ready-made phosphorus
7	٢٠٢٤/٣/١٣	Potassium	Determination of ready-made potassium
8	٢٠٢٤/٣/٢٠	Calcium, Magnesium and Sulfur	Estimate ready-made calcium and magnesium
9	٢٠٢٤/٣/٢٧	Factors affecting the readiness of microelements.	Estimation of ready-made sulfur
10	٢٠٢٤/٤/٣	Iron, manganese, zinc, copper	boron determination
11	٢٠٢٤/٤/١٠		
12	٢٠٢٤/٤/١٧	Boron, molybdenum, chlorine and nickel	determination of iron
13	٢٠٢٤/٤/٢٤	Beneficial elements	Zinc determination
14	٢٠٢٤/٥/١	Organic matter in soil and its importance in fertility.	Estimation of organic matter
15	٢٠٢٤/٥/٨	Soil fertility evaluation	Factors affecting fertility evaluation

Instructor Signature
Dr. Luay Dawood Farhan
15/1/2025

Dean Signature
Prof.Dr. Raaed Ibrahim Khalil
15/1/2025