Republic of Iraq The Ministry of Higher Education & Scientific Research



University: Diyala College: Agriculture Department: Soil Science and Water Resources Stage:furth Lecturer name: basem rahem bader Academic Status: prof Qualification: : ph.D Place of work: Coll.of Agriculture

## **Course Weekly Outline**

<b>Course Instructor</b>	Basem rahem bader				
E_mail	basemrbader@uodiyala.edu.iq				
Title	Fertilizer technologies				
Course Number	scecod				
Credits:	2				
Lectures Houres:	2				
Practical Hours:	Not found				
Course Objective	The aim is to introduce students to the principles and techniques used in				
	manufacturing and preparing fertilizers, methods of expressing them, and how to				
	Fertilizer technologies are defined as the techniques used to express fertilizers				
Course Description	how to manufacture them, methods of addition, their behavior within the soil, and				
Course Description	their importance to plants				
Prequests					
Textbook	Ali, Nour al-Din Shawqi, 2010, Fertilizer Technologies and Their Uses.				
References	College of Agriculture, University of Baghdad. (under publication)				
	2- Al-Naimi, Saadallah (1999) Fertilizers and soil fertility. Ministry of Higher				
	Education and Scientific Research, University of Mosul. 3- Haylin II, Tisdale SI, Nelson WI, and Beaton ID 2005 Soil				
	Fertility and Fertilizers, 5th edition. USA.				
	4- Hassan, Nouri Abdel Qader, Hassan Al-Dulaimi, and Latif Al-Ithawi,				
	1990. Soil Fertility and Fertilizers, Ministry of Higher Education and				
	Scientific Research. Baghdad University.				
	fertility. Albasrah university				
Course Accounting	Term Test	Laboratory	Quizzes	Project	Final Exam
Course Assessment		-			
	40%	10%	10%	40%	60%
			/ /		
General Notes					

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week	Date	<b>Topics Covered</b>	<b>Practical Part</b>
1	2022/2/20	Fertilizers, their types and classification	Fertilizer technologies
			Fertilisers
			ne chemical principles associated
			with fertilizers
2	2 /27	Nitrogen fertilizers	Nitrogen
			Simple nitrogen fertilizers
3	3/6	Phosphate fertilizers.	Phosphorus
			Phosphate fertilizers
	2.42		Simple mineral phosphate fertilizers
4	3/13	Fertilizers containing potassium	Potassium
			Potash fertilizers
			The most important potassium
			landa
			allus Sulfur
			Sulfur fertilizers
5	3/ 20	Sulfur calcium and magnesium fertilizers	Micronutrient fertilizers
5	3/20	Micronutriant fartilizars	Iron fartilizar Fa
0	5/2/	Where on durient refunzers	Manganese Fertilizers Mn
7	4/3	Micronutrient fertilizers	Zinc fertilizers Zn
<i>'</i>	4 / 10	Biol Nutrients water use and other interactions	
0	4/10	Eartilizer evoluation and mixing	horon fortilizors
9	4/1/	Fertilizer evaluation and mixing	Copper Fertilizers Cu
			Alamybdenum Fertilizers Mo
10	4/2.4	Nutrient management basics	Compound or mixture fertilizers
10	1/21	i tutioni munugomoni ousios	Advantages of compound fertilizers
11	5/1	Economics of using fertilizers	minology related to compound and
•••		C	mixed fertilizers
12	5 / 8	Environmental problems associated with the	Organic fertilizer
		use of fertilizers	Sources of organic fertilizers
			nditions and specifications of good
			organic fertilizer
13	5 /15	Optimal use of chemical fertilizer technologies	culations of the amount of added
		in Iraqi agriculture	fertilizers
14	5 / 22	Semester second examFertilizer analysis	Methods of adding solid fertilizersl
15	5/29		Compare and discuss results

**Instructor Signature:** 

**Dean Signature:**