



Teaching plan for the semester form(2018-2019)

Course Instructor	Maitham abas Makei				
E_mail	Maitham_abas@yahoo.com				
Title	Soil & water microbiology.				
Course Coordinator	(15) week, two hours per week (theoretical part). (15) week, two hours per week (practical part).				
Course Objective	The relationship between microorganisms and environment, soil and water				
Course Description	explain the concept of micro-organisms and its divisions and classify public and attributes her knowledge of the extent of its impact on the soil and the aquatic environment and knowledge of the physical and chemical factors affecting the .microbial activity in both environments				
Textbook					
References	<p>بيئة الاحياء الدقيقة (منشورات جامعة دمشق/كلية العلوم/ د. ابتسام حمد و د. عدنان احمد علي (2009) البيئة المائية (ا.د. حسين علي السعدي / 2009). علم الاحياء المجهرية للمياه (رشيد محبوب المصلح / 1988 / جامعة بغداد) . علم الاحياء المجهرية (طالب كاظم المفرجي / 1990 / جامعة بغداد / كلية العلوم) . علم الاحياء المجهرية للتربة والمياه / الجزء العملي (طالب كاظم المفرجي وشذى سلمان العزاوي 1991 جامعة بغداد) . ميكروبيولوجية التربة البيئي / الصديق احمد مصطفى/ 2011 .</p>				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
General Notes	Type here general notes regarding the course				



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week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Soil characteristics		
2		Soil microbial environment		
3		Soil microbes		
4		The role of soil microbes in the carbon turnovers		
5		Microbial nitrogen cycle		
6		The role of microbes in the soil phosphorus turnovers		
7		The role of microbes in the soil sulfur turnovers		
8		The role of soil microbes in pesticide residue analysis		
9		Water Environment microbial		
10		Microbial contamination of water sources		
11		Bacterial and marine and fresh groundwater and hot water		
12		Physical and chemical factors affecting microbial activity		
13		Physical and chemical factors affecting microbial activity		
14		The relationship between microbial water with all of the plants and aquaculture		
15		The waste liquid treatment of drinking water		

Instructor Signature:

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