

Republic of Iraq
**The Ministry Of Higher
 Education**
& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
**Department: Field crops
 Sciences**
Stage: second
**Name: : Mohammed Nadeem
 Kasim**
Academic Status: teacher
Qualification: Ph.D
Place of work: College of

Flow up of implementation celli pass play

Course Instructor	Mohammed Nadeem Kasim				
E-mail	mohammedhantoosh@uodiyala.edu.iq				
Title	Principles of Microbiology				
Course Coordinator	12Weeks				
Course Objective	Introducing students to the basics of microbiology according to the curriculum set for second-year students in the .Department of Field Crop Sciences				
Course Description	Studying the basics of microbiology through defining and developing microbiology, as well as knowing its taxonomic position in the world of living things, and identifying its important types such as bacteria, fungi, viruses, and algae, and studying each of them in terms of shape, structure, nutrition, and reproduction.				
Textbook	Principles of Microbiology. Dr. Faiz Aziz Al-Ani and Dr. Amin Suleiman Badawi 2000. University of Mosul.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60%
General Notes					

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week	Date	Topics Covered	Practical Part
1	20-2-2025	Microbiology, its definition, origin and development	Learn about laboratory equipment and tools and follow safety instructions
2	27-2-2025	Classification of microorganisms and their position in other sciences	Microscope, its types and how to use it
3	3-2-2025	Bacteria, their shapes, structure and classification	Growing media, types and components
4	10-3-2025	Components of a bacterial cell	Sterilization
5	17-3-2025	Permeability and transmission through membranes	Bacteria shapes
6	Test 1		
7	٢٠٢٥/٤/٣	Bacterial nutrition, growth and reproduction stages	Isolation, purification and counting of microorganisms
8	٢٠٢٥/٤/١٠	Fungi, their shapes, classification, benefits and harms	
9	٢٠٢٥/٤/١٧	Fungal cell structure	Microbial staining, simple staining
10	٢٠٢٥/٤/٢٤	Fungal nutrition, growth and reproduction	Compound staining
11	٢٠٢٥/٤/٣١	Algae, its forms and spread	Microbial motility test
12	Test2	Types of foxes and their nutrition	Microbial motility test
13	٢٠٢٥/٥/١٤		
14	٢٠٢٥/٥/٢١	Viruses. Their shapes, components and reproduction.	Antibiotic efficacy on microorganisms
15	٢٠٢٥/٥/٢٨	Environmental factors affecting the growth of microorganisms	Antibiotic efficacy on microorganisms

Instructor Signature
Ass.Prof. Dr. Mohammed Nadeem Kasim
2025/1/15

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