

Republic of Iraq
The Ministry of Higher
Education
& Scientific Research



بسم الله الرحمن الرحيم

University: Diyala
College: Agriculture
Department: Animal
production
Stage: Second
Lecturer name: Dr. Faris
M.Suhail
Qualification: Ph. D.
Place of work: Coll. Of

Flow up of implementation celli pass play

Course Instructor	Prof. Dr. Faris M. Suhail				
E-mail	farissuhail@uodiyala.edu.iq				
Title	Principles of microbiology				
Course Coordinator	First Course\ 2024-2025				
Course Objective	Introduce students the basics of microbiology according to the vocabulary of substance of microbiology for students of second stage of the students Soil and water resources department .				
Course Description	Included vocabulary material Definition of microbiology and its inception and its development stages, location taxonomic of microorganisms and name it, and nutrition microbiology and definition bacteria forms and composition, the definition fungal described the importance and the installation of the fungal cell, and then identify the algae types and their reproduction and viruses .				
Textbook	1- Principles of microbiology. Dr. Faaz Aziz al-Ani and Dr. Amin Suleiman Badawi. 2000 .University of Mosul. 2- microbiology. Authoring a committee of my teaching Department of Life Sciences - Baghdad University, Dar al-Hikma for printing and publishing in 1991				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60
General Notes					

Republic of Iraq
The Ministry of Higher
Education
& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Animal
production
Stage: Second
Lecturer name: Dr. Faris
M.Suhail
Qualification: Ph. D.
Place of work: Coll. Of
Agriculture

Flow up of implementation celli pass play

week	Date	Topics Covered	Practical Part
1	1 st week	Definition and development of microbiology	Identify the microbiology laboratory – Instruments and tools- general guidelines and safety methods .
2	2 nd week	Taxonomy site of microorganisms in the world of biology	Sterilization , the microscope , type of microscope
3	3 rd Week	Naming microbiology - Classification of microbiology	Culture media , types, methods of preparation
4	4 th Week	Bacteria, presence, components, forms	Sampling methods of microorganisms- Isolate microorganisms
5	5 th Week	The bacterial cell wall and its components, cytoplasmic membrane and its components	
6	6 th Week	Permeability and the transition across membranes cytoplasmic	Diagnosis of bacteria , shape of bacteria
7	7 th Week	Bacterial flagella, pilli	Fungi, Diagnosis of fungi, shape of fungi. Diagnosis of molds and yeasts
8	8 th Week	Cytoplasm, nucleic acids	Staining of bacteria , simple staining
9	9 th Week	Objects moderation, Spores, plasmids, cysts	
10	10 th Week	Fungi, described the fungus, its importance	Compound staining , spore staining
11	11 th Week	Installation of the fungal cell, the cytoplasm and its contents	
12	12 th Week	Algae, types, presence, growth and reproduction	Mobility of bacteria hanging (drop preparation)
13	13 th Week	Microbiology nutrition, reproduction microbiology	The minimum inhibitory concentration using antibiotics .
14	14 th Week	viruses	
15	15 th Week		

Exam

Instructor's signature
Prof. Dr. Faris Mohammed Suhail
15/1/2025

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