



Module (Course Syllabus) Catalogue 2023-2024

College/ Institute	Koya Technical Institute	
Department	Midwifery	
Module Name	Microbiology	
Module Code	MIC205	
Degree	Technical Diploma <input checked="" type="checkbox"/> *	Bachelor <input type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/> PhD <input type="checkbox"/>
Semester	2	
Qualification		
Scientific Title	Lecturer	
ECTS (Credits)	6	
Module type	Prerequisite <input type="checkbox"/>	Core <input type="checkbox"/> Assist. <input checked="" type="checkbox"/> *
Weekly hours		
Weekly hours (Theory)	(2)hr Class	(2)Total hrs Workload
Weekly hours (Practical)	(2)hr Class	(2)Total hrs Workload
Number of Weeks	12	
Lecturer (Theory)	Ayad Kareem Ali	
E-Mail & Mobile NO.	ayad.ali@epu.edu.iq 0750461824	
Lecturer (Practical)	Mr. Muhamad +Mrs. Choman+ Mrs. Talar	
E-Mail & Mobile NO.		
Websites		

Course Book

<p>Course Description</p>	<p>Microbiology helps a healthcare professional to have better understanding of these microorganisms so that a patient whose immune system lowers down and is always at risk of being affected by any microbe, can remain safe and healthy when he is in the hands of a nursing professional.</p> <p>Microbiology helps a nursing professional to understand the basic concepts of reproduction, morphology, biochemical characteristics and genetics.</p> <p>. This subject is a comprehensive science it gives following knowledge about Microbiology:</p> <ul style="list-style-type: none"> *General information about Microbiology. *Information about Bacteriology. * Information about Virology * Information microscopic fungi *Special information about microbial control. 			
<p>Course objectives</p>	<p>The aim from this subject to give knowledge about Microbiology and then microbial control.</p>			
<p>Student's obligation</p>	<p>It is necessary all the students listen and write notes and their obligations throughout the academic year and the attendance and completion of all tests, exams. It should also practice in the laboratory or another place depending on the lecture.</p>			
<p>Required Learning Materials</p>	<p>lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters.</p>			
<p>Evaluation</p>	<p>Task</p>	<p>Weight (Marks)</p>	<p>Due Week</p>	<p>Relevant Learning Outcome</p>
	<p>Paper Review</p>			

	Assignments	Homework	5		
		Class Activity	2		
		Report	5		
		Seminar	5		
		Essay			
		Project			
	Quiz	8			
	Lab.	15			
	Midterm Exam	10			
	Final Exam	40			
Total	100				
Specific learning outcome:	<p>1-- Student must be learning features of microbial organisms. 2- Student must be learning features, diagnosis of bacteria. 3-- Student must be learning features, diagnosis of viruses 4- Student must be learning features, diagnosis of fungi. 5- Student must be learning how to control microbial organisms.</p>				
Course References:	<p>1- Microbiology Nina T. Parker, 2016</p> <p>2- Medical Microbiology: An Introduction to Infectious Diseases 1984</p>				
Course topics (Theory)			Week	Learning Outcome	
Introduction to Microbiology			First		
Classification of Microbiology			Second		
Bacteriology			Third		
Bacterial cell structure, Gram stain			Fourth		
Classification of bacteria according to the:- 1- Shape 2- Flagella 3- Nutrient 4- Ph			Fifth		

Classification of bacteria according to the:- 1- Temperature 2- Oxygen	Sixth	
Growth of bacteria	Seventh	
Virology Features of viruse	Eighth	
Control of microbiology	Ninth	
Medical microbiology	Tenth	
Staphylococcus spp.	Eleventh	
Bacillus spp.	Twelfth	
Practical Topics	Week	
Introduction to Microbiology	First	
Classification of Microbiology Safety Procedures and Precautions in the Microbiology Laboratory	Second	
LIST OF EQUIPMENT IN MICROBIOLOGY LABORATORY	Third	
Types of culture media used in microbiology	Fourth	
SMEAR PREPARATION	Fifth	
COMMON STAINING TECHNIQUE Simple Staining	Sixth	
DIFFERENTIAL STAINS <u>Gram Staining</u>	Seventh	
ACID-FAST STAINING	Eighth	

Catalase test	Ninth	
Coagulase test	Tenth	
Haemolysis test	Eleventh	
Review	Twelfth	

Questions Example Design

Q\Enumerate

Q\ write feature

Extra notes:

External Evaluator