

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



$Module\ (Course\ Syllabus) Catalogue$

2022-2023

College/ Institute	KoyaTechnical Institute		
Department	Medical Laboratory Technology		
Module Name	Medical Microbiology		
Module Code	MEI404		
Degree	Technical Diploma/ Bachelor		
	High Di oma Master PhD		
Semester	4		
Qualification	Master		
Scientific Title	Assistant lecture		
ECTS (Credits)			
Module type	Prerequisi Co √ Assist.		
Weekly hours	4		
Weekly hours (Theory)	(2)hr Class (3)Total hrs Workload		
Weekly hours (Practical)	(2)hr Class (1)Total hrs Workload		
Number of Weeks			
Lecturer (Theory)	Shno Abdalqadir Sofi		
E-Mail& Mobile NO.	Shno.sofi@epu.edu.iq		
Lecturer (Practical)	Shno Abdalqadir Sof		
	Glena Qasim		
E-Mail & Mobile NO.	Glena.qasim@el.epu.edu.iq		
Websites			

Course Book

Course Description	Course overview: Medical microbiology is both a branch of medicine and microbiology which deals with the study of microorganisms including bacteria, viruses, fungi and parasites which are of medical importance and can cause diseases in human beings. It includes the study of microbial pathogenesis and epidemiology and is related to the study of disease pathology and immunology. Microorganisms have a tremendous impact on all life and the physical and chemical makeup of our planet. They are responsible for cycling the chemical elements essential for life. This course will introduce students to the microbial species that cause human disease. Course objective: The aims of this course are to establish the student				
Course objectives	and vasses infection host' imposubsection subsection in the control of the contro	virology that will be sament course sectious disease, the simmunologic restrant pathogens. equent patient canistry of anti-infections.	on in the principles of meduild upon the knowledge quence. In order to success student pharmacist must sponse and the burden of The content in this course re series where the pharmacitive agents and pharmacitive the care	and skills gai ssfully manag t first underst f disease caus e will lay the f nacology and otherapy of ir	ined in the patient e a patient with an sand the role of the sed by clinically foundation for the medicinal infectious diseases
Student's obligation	The students should be attendance and participate in class activity. The lectures have showed by them through presentations and practical activity and required to do the all exams and quizzes. The ideas that develop the course are the students make circle in class to discuss the subjects of the day and use materials for practical skills.				
Required Learning Materials	Lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters.				
Evaluation	Page Assignme	Task aper Review Homework Class	Weight (Marks) 5% 2%	Due Week	Relevant Learning Outcome
	ıme	Activity Report	5%		

		5%	
	Seminar	5%	
	Essay		
	Project		
	Quiz	8%	
	Lab.report	10%	
	Midterm Exam	25%	
	Final Exam	40%	
	Total	100% (100 Marks)	
Specific learning outcome:	- Specific learning outcome: Different forms of teaching will be used to reach the objectives of the academic year: 1-Power point presentation. 2-Worksheets will be designed to let the chance for practicing on several aspects of the course in the class room. 3-Student will be asked to prepare research papers on selective topics and summaries articles content. 4-There will be classroom discussions, solve, analyze and evaluate problem sets, and different issues discussed throughout the year. 5-Lecture notes are fore supporting the reading material including the hands-out.		
Course			

References:

Course topics (Theory)	Week	Learning Outcome
Gram Positive Pathogenic Bacteria (Staphylococcus species	1	. General characteristic of Staphylococcus, important pathogenic species and their harms on human.
Gram Positive Pathogenic Bacteria (Streptococcus species).	2	General characteristic of Streptococcus, important pathogenic species and their harms on human
Clostridium spp. (Characteristic, Pathogenicity, Diagnosiset).	3	General characteristic of Clostridium of bacteria , important pathogenic species and their harms on human
Enterobacteriaceae, <i>E. coli</i> . (Characteristic, Pathogenicity, Diagnosiset).	4	General characteristic of <i>E</i> . <i>coli.</i> ,important pathogenic

		species and their harms on human
Salmonella (Characteristic,		
Pathogenicity, Diagnosiset).	5	General characteristic of Salmonella, important pathogenic species and their harms on human
Shigella (Characteristic, Pathogenicity, Diagnosiset).	6	General characteristic of Shigella, important pathogenic species and their harms on human
Medically importance Haemophilias influenza (definition, characteristic, diseases, identificationet).	7	General characteristic of Haemophilus i,mportant pathogenic species and their harms on human.
Brucella (Characteristic, Pathogenicity, Diagnosiset	8	General characteristic of Brucella, important pathogenic species and their harms on human.
Visit of students to diagnostic laboratories in the hospitals of the Ministry of Health	9	
discussion of reports	10	Student's Activity
Daily examine	11	
Final Exam	12	

Questions Example Design

Examinations (question design):

Theory Questions:

Practical Question:

Multiple choice

The common word for bacteria which are rod in shape is

A. Cocci B. Bacilli C. Spirilla D. Pleomorph

Enumerating

Enumerate antigens of *Streptococcus*

Answer the following

Difference between Clostridium perfygenus and Clostridium tetani
Filling blanks
Staphyle is term means
O/ (1.1 1 A '.1 1 D)
Q/ match the column A with column B?
O(*) (A)
Questions (A) Answers (B)
Q/Write (True) for true sentences and (False) for the false sentences and correct the
falses?
Taises:
Extra notes: