

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Spring
Course Information for MA 212 MEDICAL MICROBIOLOGY

Course Name: MEDICAL MICROBIOLOGY					
Code MA 212	Regular Semester 4	Theoretical 2	Practical 2	Credits 3	ECTS 4
Name of Lecturer(s)- Academic Title: Heshu Jalal - asst. lecturer					
Teaching Assistant: Sana Yaseen					
Course Language: -					
Course Type: Main					
Office Hours 2					
Contact Email: Heshu.jalal@tiu.edu.iq Tel:750523333					
Teacher's academic profile: MSc Medical microbiology BSc Medical microbiology					
Course Objectives: This course provides learning opportunities in the basic principles of medical microbiology and infectious disease. It covers mechanisms of infectious disease transmission, principles of aseptic practice, and the role of the human body's normal microflora. The biology of bacterial, viral, fungal, and parasitic pathogens and the diseases they cause are covered. Relevant clinical examples are provided. The course provides the conceptual basis for understanding pathogenic microorganisms and the mechanisms by which they cause disease in the human body. It also provides opportunities to develop informatics and diagnostic skills, including the use and interpretation of laboratory tests in the diagnosis of infectious diseases.					
Course Description (Course overview): Medical Microbiology is the branch of microbiology concerned with medicine and medical practice. Students will be educated on viruses, bacteria, parasites and fungi involved with human disease. As a large and predominant division of medical practice, this course aims to introduce students to medical microbiology and provide a generalized overview of the subject which students will later study further detail.					

COURSE CONTENT

Week	Hour	Date	Topic
1	2	6-10/2/2022	Medical Microbiology Vs. General Microbiology
2	2	13-17/2/2022	Bacterial entry, pathogenesis and infections
3	2	20-24/2/2022	Virology
4	2	27/2-3/3/2022	Viral Entry, and pathogenesis
5	2	6-10/3/2022	Systematic infections
6	2	27-31/3/2022	Upper respiratory tract infections
7	2	3-7/4/2022	Lower respiratory tract infections
8	2	10-14/4/2022	Midterm Exam
9	2	17-21/4/2022	upper urinary tract infection
10	2	24-28/4/2022	lower urinary tract infection
11	2	8-12/5/2022	Nervous system infections
12	2	15-19/5/2022	cardiovascular system infections
13	2	22-26/5/2022	Hospital Acquired infections
14	2	29/5-2/6/2022	Review

15	2	5-9/6/2022	Final Exam
16	2	12-16/6/2022	Final Exam
COURSE/STUDENT LEARNING OUTCOMES			
1	learning objectives; course format; evaluation, testing, and grading policies; expectations; etc.		
2	General introduction to medical microbiology		
3	To understand the disease etiology		
4	To understand how to make diagnosis of the diseases		
5	To understand the treatment regime		
COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)			
Program Learning Outcomes			Cont.
1	Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.		P
2	apply principles of evidence-based medicine to determine clinical diagnoses.		P
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.		P
4	formulate and implement acceptable treatment modalities to various disease states.		P
5	use technology effectively in the delivery of instruction, assessment, and professional development.		P
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.		P
7	exhibit organizational skills, accountability, and ethical behavior.		P
8	apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.		P
9	apply problem-solving and decision-making skills.		P
10	apply and promote health policies and regulatory standards in the field career.		P
11	develop research in the field of medical analysis using qualitative and quantitative methods.		P
Prerequisites (Course Reading List and References):	Medical Microbiology, 5th Ed. (2005) Murray, Rosenthal, and Pfaller, Elsevier-Mosby, ISBN: 0-323-03303-2. NOTE: Students may also use the previous (4th) edition of this text. A table that indicates the equivalent chapters in each version of the text is provided on the Blackboard site for the course		
Student's obligation (Special Requirements):	Lecture notes, Class room presentation, Hospital visit. Medical Microbiology, A Guide to Microbial Infections: Pathogenesis, Immunity, Laboratory Diagnosis, and Control, 16th Ed. (2002) Greenwood, Slack, and Peutherer (Eds.), Churchill Livingstone; ISBN: 0443-07077-6.		
Course Book/Textbook:	Medical Microbiology, A Guide to Microbial Infections: Pathogenesis, Immunity, Laboratory Diagnosis, and Control, 16th Ed. (2002) Greenwood, Slack, and Peutherer (Eds.), Churchill Livingstone; ISBN: 0443-07077-6.		
Other Course Materials/References:	Medical Microbiology, 5th Ed. (2005) Murray, Rosenthal, and Pfaller, Elsevier-Mosby, ISBN: 0-323-03303-2.		
Teaching Methods (Forms of Teaching):	Lectures, Presentation, Seminar, Assignments, , ,		

COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Seminar	1	10
Attendance	1	5
Quiz	1	5
Midterm Exam	1	30
Laboratory	1	5
Practical Exam	1	5
Final Exam	1	40
Total		100

Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices, Short Answers, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	2	32
Practical Hours	16	2	16
Final Exam	1	22	22
Seminar	1	5	5
Attendance	1	5	5
Quiz	1	10	10
Midterm Exam	1	5	5
Laboratory	1	5	5
Practical Exam	1		0
Total Workload			100
ECTS Credit (Total workload/25)			4

Peer review

Signature:
Name:
Lecturer

Signature:
Name:
Head of Department

Signature:
Name:
Dean