TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of PHYSIOTHERAPHY, 2023-2024 Spring Course Information for PT 212 Medical Microbiology

Teacl	of Lecturer(s): ning Assistant: rse Language: Course Type: Office Hours Contact Email: ner's academic profile: rse Objectives:	Salah Tofik Jalal English Main Wednesday 10am-3pr salah.balaky@tiu.edu. Tel:07507104024 BSc (Biology) at Salah in Molecular Microbiol Medical Microbiology i be seen by the naked and diverse group of r include viruses, which opportunities in the ba covers mechanisms of the role of the human parasitic pathogens ar known as clinical micro microorganisms (para causing diseases in hu needs. At its core is th microorganisms, and i guidance – intrinsically worldwide will have ar infectious diseases. Medical Microbiology i be seen by the naked and diverse group of r include viruses, which	iq haddin University M.Sc. logy at Durham University is a science that deals eye and cause disease microscopic organisms are microscopic but no asic principles of medica f infectious disease tran body's normal microflo nd the diseases they ca obiology, is a subdiscip sites, fungi, bacteria, vi umans. Medical microbi he study of the pathogen its practical applications y a supportive role in cl n in-house microbiology is a science that deals eye and cause diseases microscopic organisms	sity, UK with the study of livi es in humans. Medi- that exist as single of cellular. This cour al microbiology and nsmission, principle ra. The biology of b ause are covered. Mo- line of microbiology iruses, and prions) of biology is essentially nesis and epidemio s lie in the form of d inical practice. Toda y laboratory to provi with the study of livit es in humans. Medi- that exist as single	ing organisms ti ical Microbiology cells or cell clus rse provides lea l infectious disea es of aseptic pra bacterial, viral, fu Medical microbio y dealing with the capable of infect y a response to ology of these diagnostic and the ay, virtually all h ide diagnostic su	that can no y is a large sters; it als arning ase. It actice, and ungal, and ology, also ne study of cting and clinical herapeutic nospitals ervices for that can no y is a large sters; it als	
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Nook Hou			COURSE CONTENT				
1 2	28/1-1/2/		Introduction to Medica				
2 2	4-8/2/20	D24 Main division	ns and groups of Microb	ology			
a	44 45101	004 Liver N					
3 2	11-15/2/2		Human Normal Flora				
4 2	18-22/2/2	2024 Pathogenesis	s of Bacterial infection				
E 0	0E 00/0/	0004 Introduction 4	to Immunology				
5 2	25-29/2/2		Introduction to Immunology				
6 2	3-7/3/20	J24 IVIYCOIOGY	Mycology				
7 0	04 00/04	004					
7 2 9 2	24-28/3/2	-	Microscope and Sterilization in the Lab				
8 2	31/3-4/4/	2024 Event					
9 2	14-18/4/2						

10	2 21-25/4	1/2024	Bacterial growth			
11	2 28/4-2/5	5/2024	Antimicrobial agents			
12		5-9/5/2024 Antibiotic resistance				
13	2 12-16/5	5/2024	Introduction to Medical Mycology			
14	2 12-10/3		The structural components of Bacterial cell			
15	2 26-30/5	5/2024	Introduction to virology			
16	2 2-6/6/2	2024	Final Exam			
			COURSE/STUDENT LEARNING OUTCOMES			
1	Understanding pa	athogenic	microorganisms			
2	The mechanisms	by which	microorganisms cause disease in the human body			
3	Normal microbial	flora and	their role in human body system			
4	Infection and imm	nunity				
5	Antimicrobial age	nts				
			RSE'S CONTRIBUTION TO PROGRAM OUTCOMES			
		•	o contribution, I: Introduction, P: Profecient, A: Advanced)			
	Program Learnin	-		Cont.		
1	 Demonstrate knowledge of the underlying concepts and principles associated within the context of health. 					
2	Demonstrate an ability to present, evaluate and interpret qualitative and quantitative data to develop lines of argument and make sound judgments in accordance with basic theories and concepts relevant I to health.					
3	3. Evaluate the ap	opropriate	ness of different approaches to solving problems related to health.	Р		
4	4. Asses the quali personal responsi		ransferable skills necessary for employment requiring the exercise of some	I		
5	5. Apply knowledg have developed	ge and crit	tical understanding of the principles of health and the way in which these			
6	Demonstrate an a were first studied.		pply underlying concepts and principles outside the context in which they	I		
7	Use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis					
8	8. Work as a member of the multi-disciplinary team within diverse settings providing an inter-agency and cross-boundary approach to person-centered health and social care.					
9	9. Demonstrate personal transferable key skills in problem solving, critical thinking, written and verbal communication, team working, professional autonomy.					
10	Demonstrate knowledge and understanding of human function and dysfunction, the theory and practice of physiotherapy.					
11	Develop clinical reasoning and problem-solving skills to assess problems and plan interventions to meet service user and career goals.					
12	Apply therapeutic skills in response to the physical, psychological, social and cultural needs of individuals or groups using critical evaluation of the available evidence					
Pre	erequisites (Cours Reading List an References		iology Text book by Prescott, Harley and Klein Medical Microbiology Text boo , Melnick and Adelberg's Online Journal Articles	k by		
(Special Requirements):): switche	Students must attend to lectures and participate in class activities. Mobile phones must be switched off. Participation of students is very important and accounts as a daily activity for course grading.			
Coui	rse Book/Textbool		iology Text book by Prescott, Harley and Klein Medical Microbiology Text boo , Melnick and Adelberg's Online Journal Articles	k by		
Ма	Other Cours Iterials/References	Inning i	ournal articles			
Teachii	ng Methods (Form of Teaching		es, Presentation, Seminar, Assignments, , ,			

COURSE EVALUATION CRITERIA					
Method	Quantity	Percentage (%)			
Attendance	1	5			
Participation	1	5			
Quiz	2	5			
Homework	1	10			
Midterm Exam	1	30			
Final Exam	1	40			
Total		100			
Examinations: Essay Questions True-False Fill in the F	Blanks Short				

Examinations: Essay Questions, True-False, Fill in the Blanks, 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	0	0		
Final Exam	1	10	10		
Attendance	1	1	1		
Participation	1	10	10		
Quiz	2	10	20		
Homework	1		0		
Midterm Exam	1		0		
Total Workload			73		
ECTS Credit (Total workload/25)			3		

Peer review

Signature:	Signature:	Signature:
Name:	Name:	Name:
Lecturer	Head of Department	Dean