TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of MEDICAL ANALYSIS, -2022 Fall

Course Information for MA 215 IMMUNOLOGY AND CLÍNICAL IMMUNOLOGY I

				CLİNİCAL IMMUNOLO						
	de	Reg	ular Semester	Theoretical	Practical	Credits	ECTS			
	215		3	2	2	3	4			
Name of Lecturer(s)- Academic Title:			Tola Faraj - PhD							
Teaching Assistant:			Chnar Hussam							
Course Language:			English							
Course Type:										
Office Hours			Tuesday 09:00-11:00							
	Coi	ntact Email:	tola.faraj@tiu.edu.iq							
			Tel:07509988344							
Teacher's academic profile:			Medical Immunology							
Course Description (Course overview):			tissues, cells and molecules involved in host defense mechanisms. Immunologists attempt to understand how the immune system develops, how the body defends itself against disease, and what happens when it all goes wrong. The following are the learning objective for the MA 215 Immunology, the students will be able to_ 1. Identify the cellular and molecular basis of immune responsiveness. 2. Describe the roles of the immune system in both maintaining health and contributing to disease. 3. Describe immunological response and how it is triggered and regulated. 4. Demonstrate a capacity for problem-solving about immune responsiveness. 5. Transfer knowledge of immunology into clinical decision-making through case studies presented in class. The immune system governs defense against pathogens and is of importance for the development of autoimmune diseases, allergy and cancer. The course discusses basic immunology including cellular and molecular processes that represent the human immune system. Subjects to be presented include cells and organs of the immune system, antigen immunoglobulins and antibody diversity, molecular mechanisms of innate and adaptive immunity, the complement system, antigen presentation, cell-mediated effector responses,							
				d select lectures on the						
			(COURSE CONTENT						
Neek	Hour	Date	Topic							
1	2	4-7/10/2	021 Class policy,	, Lab safety						
2	2	10-14/10/	2021 Immunity (In	troduction and Terminol	ogy)					
3	2	17-21/10/	2021 Innate Immu	Innate Immunity: The Early Defense Against Infections						
4	2	24-28/10/	2021 General Fea	atures and Specificity of	Innate Immune Re	sponses				
	2	31/10-4/11	10004	Components of Innate Immunity						
5			72021 Components	s of Innate Immunity						
5 6	2	7-11/11/2	•	s of Innate Immunity te Immunity in Stimulatir	ng Adaptive Immur	e Responses				
	2	7-11/11/2 14-18/11/2	2021 Role of Inna	te Immunity in Stimulatir	ng Adaptive Immur	e Responses				
6			Role of Inna 2021 Midterm Exa	te Immunity in Stimulatir	ng Adaptive Immur	e Responses				
6 7	2	14-18/11/	Role of Inna Role of Inna Midterm Exa Adaptive Imi	te Immunity in Stimulatir	ng Adaptive Immur	e Responses				

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11 12 12-16/12/2021

19-23/12/2021

Antigens

Antibodies

13	2	26-30/12/	/2021	Humoral Immunity							
14	2	2-6/1/20	022	Cell-Mediated Immunity							
		0.40440									
15	2	9-13/1/2	-	Final Exam							
16	2	16-20/1/2	2022	Final Exam							
				COURSE/STUDENT LEARNING OUTC	OMES						
1		After completing the course MA 215 Immunology, the student should be able to: Reveal the basic knowledge of									
				a cellular and molecular level.							
2	Describe central immunological principles and concepts. Outline the key mechanisms of innate and adaptive immunity and how they relate.										
3 4		-		is of inflammation.	w triey relate.						
5		-		cellular players governing mucosal immu	nitv						
	Елріа	in the key eve		SE'S CONTRIBUTION TO PROGRAM (
	_	•		contribution, I: Introduction, P: Profecier	nt, A: Advanced)						
	Program Learning						Cont.				
1		ate cilnicai iai se states.	poratory c	lata by interpreting laboratory results and	relating the data	to various	Α				
2	apply	principles of	evidence-	based medicine to determine clinical dia	gnoses.		Р				
3		the basic prir piology/virolog		gross and microscopic anatomy, physiolo	ogy, biochemistry,	immunology,	Α				
4	formu	formulate and implement acceptable treatment modalities to various disease states.									
5	use te	use technology effectively in the delivery of instruction, assessment, and professional development									
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.										
7	exhibit organizational skills, accountability, and ethical behavior.						Α				
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.										
9			-	ecision-making skills.	•		Р				
10	apply and promote health policies and regulatory standards in the field career.						Р				
11	devel	op research ir	n the field	of medical analysis using qualitative and	l quantitative metl	nods.	Α				
Pro	Read	ling List and	Levinsor	al Microbiology & Immunology, Examinat n, MD, PhD, Professor of Microbiology, La MMUNOLOGY Functions and Disorders	ange Medical Boo	ks/McGraw-Hill.	2.				
			* Examination Policy: Student Should take 2 exams (mid-term and final exams) during the course in addition to the course activities, quizzes, reports and participation during the classes, there will be no make-up exams for students who have been absent during the exam date without a medical report. * Classroom policies: 1. Attendance_ Students are strongly encouraged to attend class on a regular basis, as participation is important to understand topics and it is a vital opportunity to raise questions and get responses. 2. Lateness_ Lateness to class is disruptive, and this adversely will affect the educational process during the class. 3. Electronic devices_ All cell phones need to be turned off at the beginning of class and put away during the entire class. 4. Talking_ During class please refrain from side conversations. Again these can be disruptive to your classmates and the course lecturer								
			Medical Microbiology & Immunology, Examination & Board Review, eighth edition, Warren Levinson, MD, PhD, Professor of Microbiology, Lange Medical Books/McGraw-Hill.								
			BASIC IMMUNOLOGY Functions and Disorders of the Immune System, FIFTH EDITION, Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai, Elsevier.								
Teachi		nods (Forms of Teaching):		, Practical sessions, Presentation, Semin	nar, Assignments,	, ,					
				COURSE EVALUATION CRITERIA							
Metho					Quantity	Percentag	e (%)				
	Attendance				1	5					
Quiz					1	10					
Midterm Exam					1	20					