TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of MEDICAL ANALYSIS, -2022 Spring Course Information for MA 210 IMMUNOLOGY AND CLINICAL IMMUNOLOGY II

Course Name: IMMUNOLOGY AND CLINICAL IMMUNOLOGY II							
Code	Regular Semester	Theoretical	Practical	Credits	ECTS		
MA 210	4	2	2	3	4		
	urer(s)- Tola Faraj - PhD c Title: Ramyar Kheder - Ass	istant Professor					
Teaching Ass	sistant: Chnar Hussam	Chnar Hussam					
Course Lan	guage: English	English					
Course	e Type: Main	Main					
Office	Hours Sunday 09:00-11:00						
Contact	Email: tola.faraj@tiu.edu.iq ramyar.kheder@tiu.ed	du.iq					
	+9647504669498						
	ademic Medical Immunology profile: PhD						
Course Obje	tissues, cells and mol- to understand how the disease, and what hal for the MA 210 Immur Inflammatory Respon- responses. 3. Differer Immunoglobulins. 5. 1	: Immunology is a diverse and growing discipline that can be defined as the study of the 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 objectives for the MA 210 Immunology, the students will be able to _ 1. Understand Immune-Inflammatory Responses. 2. Describe the roles of the Complement system in the immune responses. 3. Differentiate Antigen, Haptens, Superantigens, and Opsonization. 4. Classify Immunoglobulins. 5. Transfer knowledge of immunology into clinical decision-making through case studies presented in class.					
	course and as such th		mmune system and nts cannot be effect lete student's educ	d immune disore tively conveyed ation of the core	ders. As a in a single e concepts		
COURSE CONTENT							

	COURSE CONTENT					
Week	Hour	Date	Торіс			
1	2	4-7/10/2021	Introduction (Spring term, QBank, LNs, Answers Final)			
2	2	10-14/10/2021	Immune-Inflammatory Responses			
3	2	17-21/10/2021	Complement system			
4	2	24-28/10/2021	Antigen, Haptens, Superantigens, and Opsonization			
5	2	31/10-4/11/2021	Immunology Scientific Activity			
6	2	7-11/11/2021	Immunoglobulins			
7	2	14-18/11/2021	Midterm Exam			
8	2	21-25/11/2021	Local and Herd immunity			
9	2	28/11-2/12/2021	Opsonization			
10	2	5-9/12/2021	Immunology Scientific Activity			
11	2	12-16/12/2021	Antiviral Immune Response			
12	2	19-23/12/2021	Immunisation and Vaccination			
13	2	26-30/12/2021	COVID-19 and the immune system			

14	2	2-6/1/20)22	Autoimmune Disorders				
15	2	9-13/1/2	022	Final Exam				
16	2	16-20/1/2	_	Final Exam				
	COURSE/STUDENT LEARNING OUTCOMES							
1	Local a	and Herd imr	nunity					
2	Immunisation and Vaccination							
3	Autoimmune Disorders							
4	4 Immune-Inflammatory Responses							
5	lmmun	oglobulins						
		/[RSE'S CONTRIBUTION TO PROGRAI o contribution, I: Introduction, P: Profec		١		
	Progra	•			ient, A. Advanced) Cont.		
1	Program Learning Outcomes Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.							
2	apply p	orinciples of e	evidence	e-based medicine to determine clinical o	liagnoses.	Α		
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.				y, immunology, A			
4	formula	ate and imple	ement a	cceptable treatment modalities to variou	ıs disease states.	Α		
5	use ted	chnology effe	ectively i	n the delivery of instruction, assessmen	t, and professiona	I development. A		
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.				laboratory A			
7		exhibit organizational skills, accountability, and ethical behavior.						
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	9 apply problem-solving and decision-making skills.							
10		-	-	olicies and regulatory standards in the		Α		
11		•		d of medical analysis using qualitative a	•			
Pro	Prerequisites (Course 1. Medical Microbiology & Immunology, Examination & Board Review, eighth edition, Name of the Immune System, FIFTH EDITION Abul K.							
(Special Requirements): c c c e s u L p b re			* 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.					
Course Book/Textbook: Medical Microbiology & Immunology, Examination & Board Review, eight Levinson, MD, PhD, Professor of Microbiology, Lange Medical Books/Mc				ooks/McGraw-Hill.				
Other Course BASIC IMMUNOLOGY Functions and Disorders of the Immune System Materials/References: Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai, Elsevier.				System, FIFTH EDITION,				
Teachi	ng Meth of	ods (Forms f Teaching):	Lecture	s, Practical sessions, Seminar, Assignr				
Motho	d			COURSE EVALUATION CRITER		Doroontogo (9/)		
	Method Attendance				Quantity	Percentage (%) 5		
Quiz	41100				1	10		
	n Exam					20		
Midterm Exam Presentation			1		10			
Labora					1 5			
	-· J				•			

Practical Exam	1	10
Final Exam	1	40
Total		100

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

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	10	10			
Attendance	1	6	6			
Quiz	1	6	6			
Midterm Exam	1	6	6			
Presentation	1	8	8			
Laboratory	1	12	12			
Practical Exam	1	6	6			
Total Workload			102			
ECTS Credit (Total workload/25)			4.08			

Peer review

Signature:Signature:Signature:Name:Name:Name:LecturerHead of DepartmentDean