TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of MEDICAL ANALYSIS, -2022 Spring Course Information for MA 507 SERUM AND VACCINES

Course Name:	SERUM AND VACCIN	NES				
Code Reg	ular Semester	Theoretical	Practical	Credits	ECTS	
MA 507	8	3	-	3	4	
Name of Lecturer(s)- Academic Title:	Shatha Jumaah - Lecturer					
Teaching Assistant:	None					
Course Language:	English					
Course Type:	Area Elective					
Office Hours	wednesday and thursday between 09:00 - 14					
Contact Email:	shatha.saadi@tiu.edu.iq					
	Tel:07731329529					
Teacher's academic profile:	IPNLI HOIDER					
Course Objectives:	This course introduces the concepts of clinical vaccine, vaccination and serology for clinical laboratory practice. It covers essential theoretical principles along with vaccines and serology techniques most commonly used in the lab. It provides students with knowledge required to perform different serological techniques used in disease diagnosis.					
	aimed to give basic so conception to develop teach students all eler chronic non-infectious	tures will provide this in cientists a comprehensive ment, testing, and use ments of vaccine products disease vaccines (e.g. s will be determined by ass attendance.	ve understanding o This interdisciplina ction and use, inclu , cancer, neurodeg	of vaccine creations of vaccine creations of the course was of the cours of the cou	on, from created to llness and ses, and	

presentations, and class attendance.							
	COURSE CONTENT						
Week	Hour	Date	Topic				
1	3	6-10/2/2022	Introduction to serum and vaccine/ Blood Composition				
2	3	13-17/2/2022	History of Vaccination, Key Developments, and Ongoing Challenges				
3	3	20-24/2/2022	Serum compositions				
4	3	27/2-3/3/2022	Serum sickness disease				
5	3	6-10/3/2022	Vaccine Design, Development, and Safety				
6	3	27-31/3/2022	Key Concepts in Vaccine Immunology I				
7	3	3-7/4/2022					
8	3	10-14/4/2022	Midterm Exam				
9	3	17-21/4/2022					
10	3	24-28/4/2022	Key Concepts in Vaccine Immunology II				
11	3	8-12/5/2022	How Vaccines Protect Individuals: Quantitative Methods for Measuring Vaccine				
12	3	15-19/5/2022	Efficacy (VE) Corona virus Vaccines				
13	3	22-26/5/2022	Cancer Vaccines				
14	3	29/5-2/6/2022	Immunotherapy				

15	3	5-9/6/20	122	Final Exam				
16	3	12-16/6/2		Final Exam				
				a. <u>-</u> /.a				
COURSE/STUDENT LEARNING OUTCOMES								
1	Understanding serology & serum sickness							
2		Serum, vaccine and vaccination						
3	Vaccine Ingredients							
4	Effective	vaccines a	are availa	able for infectious disease				
5	Vaccination and antibodies							
		(E		RSE'S CONTRIBUTION TO contribution, I: Introduction				
	Program	•			, 1 . 1 1010010111,	, , ,		Cont.
1		clinical lab		data by interpreting laborato	ry results and r	elating the data	to various	Α
2	apply prir	ciples of	evidence	-based medicine to determir	ne clinical diagr	noses.		Α
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.						Α	
4	formulate	and imple	ement ac	ceptable treatment modalitie	es to various di	sease states.		Α
5	use techr	ology effe	ctively in	n the delivery of instruction, a	assessment, ar	nd professional d	levelopment.	Α
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.					Α		
9	9 apply problem-solving and decision-making skills.						Α	
10	apply and promote health policies and regulatory standards in the field career.						Α	
11	develop research in the field of medical analysis using qualitative and quantitative methods.						Α	
Pro		(Course List and erences):	vaccine	s 6th Edition Expert Consult in Paul Offit Hardcover ISBN				ter
				dent should fellow all the ins s, quizzes and exams	tructor\\\\\\\\	\\'s guidelines st	udent should hav	/e
Cou	Course Book/Textbook: Vaccines 6th Edition Expert Consult - Online and Print Authors: Stanley Plotkin Working Orenstein Paul Offit Hardcover ISBN: 9781455700905				anley Plotkin Wal	ter		
Ma	Othe aterials/Ref			nmunology Eighth Edition ©	2019 Jenni Pur	nt; Sharon Stran	ford; Patricia Jor	es; Judy
Teachi	ng Method of To	s (Forms eaching):	Lecture	s, Presentation, Seminar, , ,				
				COURSE EVALUATION	ON CRITERIA			
Metho	d					Quantity	Percentag	e (%)
Attenda	ance					1	10	
Quiz						2	5	
	Presentation 1 10							
	idterm Exam(s) 1 30							
Final E					40			
Total 100								
Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching, , ,								
Extra N	Notes:							

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD						
Activities	Quantity	Workload Hours for 1 quantity*	Total Workload			
Theoretical Hours	16	3	48			
Practical Hours	16	0	0			
Final Exam	1	10	10			
Attendance	1	3	3			
Quiz	2	6	12			
Presentation	1	5	5			
Midterm Exam(s)	1	10	10			
Total Workload			88			
ECTS Credit (Total workload/25)			3.52			

Peer review

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