## TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of MEDICAL ANALYSIS, -2022 Spring Course Information for MA 508 BLOOD BANKING

	Col	urso Namo:							
							<b>A</b> 11/		
Co	de	Reg	ular Semes	ster	Theoretical	Practical	Credits	ECTS	
MA	508		8		3	-	3	4	
N	ame of L Acac	ecturer(s)- lemic Title:	Goran Nur	i - MSc					
٦	<b>Feaching</b>	Assistant:	No						
	Course	Language:	English						
	Co	ourse Type:	Area Electi	ve					
	0	ffice Hours	Monday						
	Con	tact Email:	goran.nori@tiu.edu.iq						
			Tel:0750000000						
		acadamia							
Teacher's academic profile:			Medical microbiology						
	Course (	Objectives:	What is the blood and a production storage of transfusion	blood banking? about the immun of blood compor blood. • Informat 	• Basic knowledg hology. • The select nents and plasma tion about appropr	e about the various tion of blood donors derivatives. • Learn iateness and inapp	components as s. • Information ing about collector opriateness of	vailable from about ction and blood	
	Course I (Course	Description overview):	This course compatibili transfusion principles r	e will introduce s ty testing, antibo reactions and ir necessary to per	tudents to the fund dy screening, com nvestigation. Also form competently	damentals of blood ponent preparation this course will teac in a clinical blood b	grouping and ty , donor selectic h the student th ank.	/ping, on, and ne basic	
				COUF	RSE CONTENT				
Week	Hour	Date	Te	opic					
1	2	6-10/2/2	022 In	troduction					
2	2	13-17/2/2	2022 F	undamentals of I	mmunology for Bl	ood Bankers			
3	2	20-24/2/2	2022 C	ollection and sto	rade of blood				
4	2	20-2-1/2/2	022 0 0022 C	ollection and sto	rage of blood cont	ł			
-	2	2112-01012	1022 0						
5	2	6-10/3/2	022 B	lood aroup syste	m				
6	2	27-31/3/2	2022 B	lood components	s and plasma deriv	vatives			
	—		2						
7	2	3-7/4/20	)22 M	lidterm Exam					
8	2	10-14/4/2	2022 M	lidterm Exam					
9	2	17-21/4/2	2022 co	omplete blood pi	cture				
10	2	24-28/4/2	2022 B	lood transfusions	s and the immune	system			
						-			
11	2	8-12/5/2	022 B	lood transfusions	s and the immune	system cont.			
12	2	15-19/5/2	2022 A	ppropriateness a	and inappropriaten	ess of blood transfu	ision		
13	2	22-26/5/2	2022 A	ppropriateness a	and inappropriaten	ess of blood transfu	ision cont.		
14	2	29/5-2/6/2	2022 H	emolytic disease	e of Newborn (HDI	N)			
15	2	5-9/6/20	)22 Fi	inal Exam					
16	2	12-16/6/2	2022 Fi	nal Exam					
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## COURSE/STUDENT LEARNING OUTCOMES

1	Be familiar with diffe cryoprecipitate.	erent components of blood including red blo	ood cells, leukocytes, plate	ets, plasma and
2	Perform tests in the serology testing.	laboratory such as blood grouping, cross n	natching, antibody screeni	ng, apheresis and
3	Describe the specif	cation of the various RBC antigens and the	ir significance.	
4	Know the various c	omplications of blood transfusion.		
5	Perform Quality ma	nagement and optimal utilization of blood b	ank products.	
	(E	COURSE'S CONTRIBUTION TO PROG Blank : no contribution, I: Introduction, P: Pro	RAM OUTCOMES ofecient, A: Advanced )	
	Program Learning	Outcomes		Cont.
1	Evaluate clinical lab disease states.	oratory data by interpreting laboratory resu	lts and relating the data to	various A
2	apply principles of e	vidence-based medicine to determine clinic	cal diagnoses.	А
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology microbiology/virology.			
4	formulate and implement acceptable treatment modalities to various disease states.			
5	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.			pratory A
7	exhibit organization	al skills, accountability, and ethical behavio	r.	А
8	apply skills needed equipment, and adh	in operating laboratory equipment for testin ering to standard safety practices in the lab	ig, assessing quality assur poratory environment.	ance for lab A
9	apply problem-solvi	ng and decision-making skills.		А
10	apply and promote	health policies and regulatory standards in	the field career.	А
11	develop research ir	the field of medical analysis using qualitati	ve and quantitative method	ds. A
Pre	requisites (Course Reading List and References):	1-Handbook of Blood Banking and Transfu Turgeon: Immunology & Serology in Labor Blood Groups and Red Cell Antigens, 2005	sion Medicine, First Edition atory Medicine, 5th Edition 5 Christopher D. Hillyer, MI	n: 2006 2-Mary Louise , 2013 Laura Dean: D, Leslie E. Sil
S <sup>:</sup> (Spec	tudent's obligation ial Requirements):	Class attendance: Students are expected t exception). A prior approval is required for Any student coming late will not be allowed absent. Exam: Failure in attending a course provides an excuse acceptable to the Dear normally be reassessed in the scheduled s exam at the correct time and place.	to attend all classes of this class absence except for e d to attend the class and he e exam will result in zero n n who approves a re-sit ex- semester. It is your respons	course (without emergencies. Tardy: e/she will be marked nark unless the student am. Failed courses will sibility to attend the
Cour	se Book/Textbook:	1. Harmening, D., Baldwin, A. J., & Sohme transfusion practices. Philadelphia: F.A. Da Transfusion Society, British Association for Francis, C. (2020). Blood Group Antigens a Technical Tips (2nd ed.). Star Bright Books (2018). Transfusion Medicine and Hemosta Elsevier Science.	r, P. R. (1983). Modern blo avis. 2. 2011. Manchester: <sup>.</sup> Tissue Banking. 3. Reid, I & Antibodies: A Guide to C 5. 4. Md, B. S. H., Md, C. H asis: Clinical and Laborator	od banking and British Blood M. E., & Lomas- Iinical Relevance & . D., & Gil, M. R. ry Aspects (3rd ed.).
Mat	Other Course terials/References:	1. Jaypee Brothers Medical Pub; 2nd editio & Gil, M. R. (2018). Transfusion Medicine a (3rd ed.). Elsevier Science. 3. Petrides, M. Transfusion Medicine, 2nd edition (2nd ed. Rules and Guidance for Pharmaceutical M Orange Guide (Revised edition). Pharmace	on (August 1,2013). 2. Md, and Hemostasis: Clinical a & AABB Press. (2007). Pr ). Amer Assn of Blood Bar anufacturers and Distribute eutical Press.	B. S. H., Md, C. H. D., nd Laboratory Aspects actical Guide To iks. 4. M. (2006b). ors 2007: aka the
Teachin	ig Methods (Forms of Teaching):	Lectures, Presentation, Seminar, Assignme	ents, , ,	
		COURSE EVALUATION CR		
Method	l		Quantity	Percentage (%)
Attenda	nce		1	10%
Particip	ation		1	5%
Quiz			1	10%
Homew	ork		1	5%
Midterm	n Exam		1	30

40 **100** 

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 $\mbox{\bf Examinations:}$  True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching, , ,

## Extra Notes:

ECTS (ALLOCATED BASED ON STU	DENT) WORKLO	AD	
Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	3	48
Practical Hours	16	0	0
Final Exam	1	2	2
Attendance	1	1	1
Participation	1	10	10
Quiz	1	2	2
Homework	1	1	1
Midterm Exam	1	1	1
Total Workload			65
ECTS Credit (Total workload/25)			2.6

## Peer review

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