

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Fall
Course Information for MA 409 PATHOLOGY

Course Name: PATHOLOGY					
Code MA 409	Regular Semester 7	Theoretical 2	Practical -	Credits 2	ECTS 3
Name of Lecturer(s)- Academic Title: Payman Anwar - Assist Professor					
Teaching Assistant: -					
Course Language: English					
Course Type: Main					
Office Hours Thursday 12:00-13:00					
Contact Email: payman.anwar@tiu.edu.iq Tel:07504533469					
Teacher's academic profile: Ph.D					
Course Objectives:	By the end of this course students will be able to : 1-Understand important of pathological terms like, etiology, pathogenesis, morphology, biopsy and autopsy. 2-Understanding the etiology of diseases. 3-To know pathogenesis of important diseases and their complications. 4-Discribe Morphological patterns of diseases that aid in diagnosis. 5-Link the morphological changes seen in diseases processes to functional consequences and prognosis. 6-Relate clinical signs an symptoms to disease processes to reach accurate diagnosis.				
Course Description (Course overview):	This course is designed to provide the medical analysis students with a comprehensive knowledge of the basic concepts and principles of general pathology including cellular response to injury, etiology of cell injury, adaptive process, reversible and irreversible cell injury, intracellular accumulation, inflammation, healing and repair, hemodynamic disturbances such as edema, hyperemia and congestion, thrombosis, Embolism, infarction, and shock. The course also focuses on neoplasia, nomenclature of tumor, biology of tumor and etiology.				

COURSE CONTENT

Week	Hour	Date	Topic
1	2	4-7/10/2021	Introduction to Pathology
2	2	10-14/10/2021	Cell Injury1, -Adaptation
3	2	17-21/10/2021	Cell injury 2,-Revesable and irreversible injury
4	2	24-28/10/2021	Cell injury3,- Intracellular Accumulations
5	2	31/10-4/11/2021	Inflammation 1,- Acute
6	2	7-11/11/2021	Inflammation 2,- Chronic
7	2	14-18/11/2021	Midterm Exam
8	2	21-25/11/2021	Midterm Exam
9	2	28/11-2/12/2021	Inflammation 4,- Healing and Repair
10	2	5-9/12/2021	Hemodynamic 1,-Edema
11	2	12-16/12/2021	Hemodynamic 2,-Hyperemia and Congestion
12	2	19-23/12/2021	Hemodynamic 3,-Thrombosis
13	2	26-30/12/2021	Hemodynamic 4,- Embolism
14	2	2-5/1/2022	Hemodynamic 5,- Infarction

15	2	9-13/1/2022	Final Exam
16	2	16-20/1/2022	Final Exam
COURSE/STUDENT LEARNING OUTCOMES			
1	Understand causes and mechanism of Cell Injury		
2	Identify types of Inflammation		
3	Learn Hemodynamic Disorders		
COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)			
Program Learning Outcomes			Cont.
1	Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.		A
2	apply principles of evidence-based medicine to determine clinical diagnoses.		P
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.		I
4	formulate and implement acceptable treatment modalities to various disease states.		
5	use technology effectively in the delivery of instruction, assessment, and professional development.		P
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.		
7	exhibit organizational skills, accountability, and ethical behavior.		I
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.		I
9	apply problem-solving and decision-making skills.		I
10	apply and promote health policies and regulatory standards in the field career.		I
11	develop research in the field of medical analysis using qualitative and quantitative methods.		
Prerequisites (Course Reading List and References):	-Robbins Basic Pathology 10th Edition -Robbins Pathologic basis of Disease 10th Edition		
Student's obligation (Special Requirements):	Student should attend all lectures and actively participate in scientific discussions.		
Course Book/Textbook:	-Robbins Basic Pathology 10th Edition -Robbins Pathologic basis of Disease 10th Edition		
Other Course Materials/References:	Internet pathologic Laboratory (webpath)		
Teaching Methods (Forms of Teaching):	Lectures, Presentation, Seminar, Assignments, , ,		
COURSE EVALUATION CRITERIA			
Method		Quantity	Percentage (%)
Attendance		1	10
Participation		1	5
Quiz		1	15
Term Paper		1	15
Term Paper		1	15
Final Exam		1	40
	Total		100
Examinations: True-False, Multiple Choices, Short Answers, , ,			
Extra Notes:			
ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD			
Activities		Quantity	Workload Hours for 1 quantity*
Theoretical Hours		16	2
			Total Workload
			32

Practical Hours	16	0	0
Final Exam	1	4	4
Attendance	1	6	6
Participation	1	2	2
Quiz	1	4	4
Term Paper	1	4	4
Term Paper	1		0
Total Workload			52
ECTS Credit (Total workload/25)			2.08

Peer review

Signature:
Name:
Lecturer

Signature:
Name:
Head of Department

Signature:
Name:
Dean