

**TISHK INTERNATIONAL UNIVERSITY**  
**FACULTY OF APPLIED SCIENCE**  
**Department of MEDICAL ANALYSIS,**  
**-2022 Spring**  
**Course Information for MA 414 SYSTEMATICS PATHOLOGY**

**Course Name:** SYSTEMATICS PATHOLOGY

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
MA 414	8	2	-	2	3

**Name of Lecturer(s)-  
Academic Title:** Payman Anwar - Assist Professor

**Teaching Assistant:** -

**Course Language:** -

**Course Type:** Main

**Office Hours:** Thursday 11:00-12:00

**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 and symptoms of 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 concepts and principles of systematic pathology including pathology of cardiovascular system, pathology of respiratory system, pathology of gastrointestinal system, pathology of male and female genital tract system. The course also focuses on neoplasia, nomenclature of tumor, biology of tumor, epidemiology of tumor, carcinogenesis, clinical aspects of tumor and methods of diagnosis of tumors

**COURSE CONTENT**

Week	Hour	Date	Topic
1	2	6-10/2/2022	Introduction to second semester
2	2	13-17/2/2022	Hemodynamic disorders 2, Thrombosis and Embolism
3	2	20-24/2/2022	Hemodynamic disorders 3, Infarction and Shock
4	2	27/2-3/3/2022	Neoplasia 1, Classification of tumors, nomenclature
5	2	6-10/3/2022	Neoplasia 2, Epidemiology of Cancer
6	2	27-31/3/2022	Neoplasia 3, Molecular basis of Cancer
7	2	3-7/4/2022	Neoplasia 4, carcinogenesis and chemical carcinogens
8	2	10-14/4/2022	Midterm Exam
9	2	17-21/4/2022	Midterm Exam
10	2	24-28/4/2022	Neoplasia 5, Clinical aspects of neoplasia
11	2	8-12/5/2022	Pathology of cardiovascular system
12	2	15-19/5/2022	Pathology of Respiratory system
13	2	22-26/5/2022	Pathology of gastrointestinal system
14	2	29/5-2/6/2022	Pathology of female genital system

15	2	5-9/6/2022	Final Exam
16	2	12-16/6/2022	Final Exam
<b>COURSE/STUDENT LEARNING OUTCOMES</b>			
1	Understand main hemodynamic disorders including Thrombosis, embolism, infarction and Shoc		
2	Identify concept of Neoplasia, nomenclature of tumor, biology of tumor and etiology.		
3	Provide a comprehensive knowledge of pathology of female genital tract and breast.		
4	Provide a comprehensive knowledge of pathology of gastrointestinal tract		
5	Provide a comprehensive knowledge of pathology of cardiovascular and respiratory tract		
<b>COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES</b> (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced )			
<b>Program Learning Outcomes</b>			<b>Cont.</b>
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.		
<b>Prerequisites (Course Reading List and References):</b>	-Robbins Basic Pathology 10th Edition 2018 -Robbins Pathologic basis of Disease 10th Edition 2021.		
<b>Student's obligation (Special Requirements):</b>	1. Students are expected to attend all classes and to complete all assignments for the course in which they are enrolled. 2. During classes students should be prepared for interaction and participation in discussions with tutors and students. 3. An absence does not relieve the student of the responsibility to complete all assignments. 4. During the course students are expected to participate in all quizzes and prepare all requested reports.		
<b>Course Book/Textbook:</b>	-Robbins Basic Pathology Last Edition -Robbins Pathologic basis of Disease Last Edition		
<b>Other Course Materials/References:</b>	Internet pathologic Laboratory (webpath)		
<b>Teaching Methods (Forms of Teaching):</b>	Lectures, Presentation, Seminar, Assignments, , ,		
<b>COURSE EVALUATION CRITERIA</b>			
<b>Method</b>		<b>Quantity</b>	<b>Percentage (%)</b>
Attendance		1	5
Participation		1	5
Quiz		1	10
Homework		1	10
Midterm Exam(s)		1	30
Final Exam		1	40
	<b>Total</b>		<b>100</b>
<b>Examinations:</b> Essay Questions, Fill in the Blanks, Multiple Choices, , ,			
<b>Extra Notes:</b>			