

**TISHK INTERNATIONAL UNIVERSITY**  
**FACULTY OF APPLIED SCIENCE**  
**Department of MEDICAL ANALYSIS,**  
**-2022 Fall**  
**Course Information for MA 411 PHARMACOLOGY AND CLINICAL PHARMACOLOGY**

**Course Name:** PHARMACOLOGY AND CLINICAL PHARMACOLOGY

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
MA 411	7	2	-	2	3

**Name of Lecturer(s)-  
Academic Title:** Ismael Bilal - PHD

**Teaching Assistant:** None

**Course Language:** English

**Course Type:** Main

**Office Hours** Sunday 11:00-13:00

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Tel:07504514337

**Teacher's academic  
profile:** Lecturer

**Course Objectives:** These courses include teaching the student the name group of drugs products, emphasis on mode of action of drugs, and use chemicals that impacts on human body with their metabolism and potential harmful effects. Although it concerned with identification and clinical analysis of many drugs or chemicals to certain disease, therapeutic doses of chemical or drugs. Drug – Any substance that when taken into the body, may modify one or more of its functions.

**Course Description  
(Course overview):** Pharmacology is the study of medicines, their uses and actions. Clinical pharmacology combines pharmacology, pathology, molecular biology and practically all medical topics into a program aimed at teaching students the principles of medical treatment and its complexities. Students will understand the mechanisms of actions of common drugs, their indications and any issues regarding their use. This topic will grant students the ability to practice with confidence within a medical multidisciplinary team and have a grasp on medical treatment and prepare them for practice within a clinical healthcare role.

**COURSE CONTENT**

Week	Hour	Date	Topic
1	2	4-7/10/2021	Introduction of toxicology
2	2	10-14/10/2021	Alcohol poisoning
3	2	17-21/10/2021	Pesticide+insecticide
4	2	24-28/10/2021	Cyanide toxicity
5	2	31/10-4/11/2021	Benzene toxicity
6	2	7-11/11/2021	Mercury toxicity
7	2	14-18/11/2021	Midterm Exam
8	2	21-25/11/2021	Midterm Exam
9	2	28/11-2/12/2021	Lead poisoning
10	2	5-9/12/2021	Snake poisoning
11	2	12-16/12/2021	Spider toxicity
12	2	19-23/12/2021	Bees stinging
13	2	26-30/12/2021	Scorpion toxicity
14	2	2-5/1/2022	Toxic mashrooms

15	2	9-13/1/2022	Final Exam
16	2	16-20/1/2022	Final Exam
<b>COURSE/STUDENT LEARNING OUTCOMES</b>			
1	1. Have a comprehensive knowledge of all the basic principles in Clinical Toxicology.		
2	2. Understanding the mechanism of toxicity of medications and chemicals on human		
3	3. Recognize the toxic dose and toxic effects of xenobiotic that produce systemic toxicity on human health.		
4	4. To identify and to characterize adverse effects of medications and chemical compounds on creatures		
5	5. To estimate the probability of the occurrence of adverse effects (risk assessment)		
<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.		
2	apply principles of evidence-based medicine to determine clinical diagnoses.		
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.		
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	apply problem-solving and decision-making skills.		
10	apply and promote health policies and regulatory standards in the field career.		
11	develop research in the field of medical analysis using qualitative and quantitative methods.		
<b>Prerequisites (Course Reading List and References):</b>		1. Cassarett and Doulls, Toxicology, 6th Ed., Curtis S. Klassan, 2001, McGraw H. 2. Richard C. Dart, Medical Toxicology, third Ed, E. Martin Caravati, 2004	
<b>Student's obligation (Special Requirements):</b>		Attendance and participation of class activity	
<b>Course Book/Textbook:</b>		-Longmore M, Wilkinson LB, Baldwin A, Wallin E "Oxford handbook of clinical medicine" 9th edition, 2014.	
<b>Other Course Materials/References:</b>		Walker BR, colledge NR, Ralston SH, Penman ID "Davidson's principle and practice of medicine" 22nd edition, 2014.	
<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
Quiz		3	5
Homework		1	10
Midterm Exam		1	30
Final Exam		1	40
	<b>Total</b>		<b>100</b>
<b>Examinations:</b> Essay Questions, True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching, , ,			
<b>Extra Notes:</b>			