Course Description Form

1. Course Name:
Clinical Toxicology (Theoretical+ Practical)
2. Course Code:
Phpht 24_514--
3. Semester / Year:
First semester- 5th year
4. Description Preparation Date:
1/9/2024
5. Available Attendance Forms:
Excel sheets
6. Number of Credit Hours (Total) / Number of Units (Total)
2hours Theoretical + 2 hours Practical (26 hour/3 units)
7. Course administrator's name (mention all, if more than one name)
Theoretical
Name: Asst. Prof. Dr. Zena Sattam Hamed Email: zenasattam@umosol.edu.iq Name: Asst. Prof. Dr. Ammar A. Younis Email: ammara@uomosul.edu.iq Name: Lecturer. Dr. Mohammed Nathem Mohammed Ali Email: mohammedpharma79@uomosul.edu.iq Name: Lecturer. Dr. Sarraa Dhiaa Kasim Email: phsarraakasim82@uomosul.edu.iq Name: Lecturer. Eman Abdullah sulaiman Email: eman.sulaiman2@uomosul.edu.iq
Practical
Name: Assistant Professor Zena Sattam Hamed Email: zenasattam@uomosul.edu.iq Name: Lecturer. Dr ز Sarraa Dhiaa Kasim Email: phsarraakasim82@uomosul.edu.iq Name: Lecturer. Eman Abdullah sulaiman Email: eman.sulaiman2@uomosul.edu.iq Name: Assistant Lecturer. Shahad Salah Mohammed Ali Email: ph.shahad.salah@uomosul.edu.iq Name: Assistant Lecturer. Shahad Mohsin Khaleel Email: shahadmohsin@uomosul.edu.iq

8. Course Objectives	
Course Objectives	The course aims to provide students with the principles and skills required to deal with the toxicity of chemicals and drugs in clinical settings; it enables students to correlate signs and symptoms of toxicity with the analytical data, and to know how to establish preventive and therapeutic measures for poisoning cases.

9. Teaching and Learning Strategies	
Strategy	• Lectures and Interactive Presentations • Case-Based Learning • Interactive Workshops and Seminars • Self-Directed Learning and Research Projects • Assessment Strategies

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Acquired Clinical Toxicology Knowledge	Initial evaluation and management of the poisoned patient.	Lecture	Quizzes and Exams
2	2+2	Acquired Clinical Toxicology Knowledge	Over the counter: caffeine, theophylline; Antihistamine and decongestant. Laboratory principles or toxicological screening.	Lecture Laboratory demonstration.	Quizzes and Exams
3	2+2	Acquired Clinical Toxicology Knowledge	Non-steroidal anti-inflammatory drugs. Cases on Acetaminophen poisoning; Salicylates, evaluation of urine salicylates.	Lecture Laboratory demonstration.	Quizzes and Exams

4	2+2	Acquired Clinical Toxicology Knowledge	Vitamins Urine analysis of toxins and chemicals.	Lecture Laboratory demonstration.	Quizzes and Exams
5	2+2	Acquired Clinical Toxicology Knowledge	Toxicity of prescription medications: Cardiovascular drugs; beta blockers Cardiac glycosides toxicity: Digitalis.	Lecture Laboratory demonstration.	Quizzes and Exams
6	2+2	Acquired Clinical Toxicology Knowledge	ACE inhibitors, Calcium channel blocker Cases on toxicity with foods and dietary supplements.	Lecture Laboratory demonstration.	Quizzes and Exams
7	2+2	Acquired Clinical Toxicology Knowledge	Antiarrhythmic agents Identification of some common poisons in biological samples	Lecture Laboratory demonstration.	Quizzes and Exams
8	Mid-term exam				
9	2+2	Acquired Clinical Toxicology Knowledge	Hypoglycemic drugs Evaluation of cases of toxicity with anti-Parkinsonian drugs.	Lecture Laboratory demonstration.	Quizzes and Exams
10	2+2	Acquired Clinical Toxicology Knowledge	CNS depressants; tricyclic antidepressants; anti-cholinergic phenothiazines	Lecture	Quizzes and Exams

			Evaluation of drug toxicity on human	Laboratory demonstration.	
11	2	Acquired Clinical Toxicology Knowledge	CNS stimulant	Lecture	Quizzes and Exams
12	2	Acquired Clinical Toxicology Knowledge	Drug of Abuse: Opioids; cocaine; phencyclidine; marijuana; lysergic acid	Lecture	Quizzes and Exams
13	2	Acquired Clinical Toxicology Knowledge	Chemical and Environmental toxins: hydrocarbons; household toxins; antiseptic; disinfectants; camphor; moth repellents	Lecture	Quizzes and Exams
14	2	Acquired Clinical Toxicology Knowledge	Botanicals and plants-derived toxins: herbal preparation; toxic plants; poisonous mushrooms	Lecture	Quizzes and Exams
15	Students' seminars				

11. Course Evaluation	
Evaluation Breakdown for a Total Score of 100: Evaluation Breakdown for a Total Score of 100: • 20M Theoretical assessment ; (paper-based mid-term exam) • 20M practical assessment (attendance + quiz) • 60M paper-based theoretical final exam _____ Total 100 M	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if a	• "Gossel TA, Bricker JD, (Eds.); Principles of Clinical Toxicology; 3th edition. (2001). • Viccellio P, (Ed.); Handbook of Medicinal Toxicology; latest edition..
Main references (sources)	• "Gossel TA, Bricker JD, (Eds.); Principles of Clinical Toxicology; 3th edition.(2001). • Viccellio P, (Ed.); Handbook of Medicinal Toxicology; latest edition..
Recommended books and references (scientific journals, reports...)	○ Lippincott's Manual of T oxicology by Lippincott Williams and Wilkins, Wolters Kluwer. 2012
Electronic References, Websites	○ PubMed (https://pubmed.ncbi.nlm.nih.gov/) ○ Medscape (https://www.medscape.com/) ○ UpToDate (https://www.uptodate.com/)