

Course Description Form

1. Course Name:
General Toxicology (Theoretical+ Practical)
2. Course Code:
Phpht 24_428--
3. Semester / Year:
2 nd Semester/ 4 th year
4. Description Preparation Date:
31/1/2024
5. Available Attendance Forms:
Attendance Excel sheets
6. Number of Credit Hours (Total) / Number of Units (Total)
2hours Theoretical + 2 hours Practical (30 hour/3 units)
7. Course administrator's name
Theoretical
Name: Assis. Prof. Zena Sattam Hamed Email: zenasattam@uomosul.edu.iq Name: Lec. Dr. Mohammed Nathem Mohammed Ali Email: mohammedpharma79@uomosul.edu.iq Name : Lec. Dr. Sarraa Dhiaa Kasim Email: phsarraakasim82@uomosul.edu.iq Name: Lec. Eman Abdullah sulaiman Email: eman.sulaiman2@uomosul.edu.iq
Practical
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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	<ul style="list-style-type: none"> • 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+2	Acquired General Toxicological Knowledge	General consideration: host factor, environmental factors of toxic effects	Lecture	Quizzes and Exams
2	2+2	Acquired General Toxicological Knowledge	Carcinogenesis General introduction to practical toxicology	Lecture Laboratory demonstration.	Quizzes and Exams
3	2+2	Acquired General Toxicological Knowledge	Target organs and systemic toxicology: Respiratory system Acute toxicity study, determination of LD50	Lecture Laboratory demonstration.	Quizzes and Exams
4	2+2	Acquired General Toxicological Knowledge	Liver, Kidney Drug toxicity on liver	Lecture Laboratory demonstration.	Quizzes and Exams
5	2+2	Acquired General Toxicological Knowledge	Nervous system Nicotine toxicity	Lecture Laboratory demonstration.	Quizzes and Exams

6	2+2	Acquired General Toxicological Knowledge	Cardiovascular system Drug induced toxicity	Lecture Laboratory demonstration.	Quizzes and Exams
7	2+2	Acquired General Toxicological Knowledge	Blood Blood toxicity	Lecture Laboratory demonstration.	Quizzes and Exams
8	Mid-term exam				
9	2+2	Acquired General Toxicological Knowledge	Food additive and contaminants Metal toxicity	Lecture Laboratory demonstration	Quizzes and Exams
10	2+2	Acquired General Toxicological Knowledge	Pesticides Pesticide toxicity	Lecture Laboratory demonstration	Quizzes and Exams
11	2	Acquired General Toxicological Knowledge	Metals, Solvents	Lecture	Quizzes and Exams
12	2	Acquired General Toxicological Knowledge	Environmental toxicology: Air pollution, water and soil pollutants	Lecture	Quizzes and Exams
13	2	Acquired General Toxicological Knowledge	Gases (Tear gas, Pepper Spray)	Lecture	Quizzes and Exams
14	2	Acquired General Toxicological Knowledge	CO, Cyanide(H ₂ S)	Lecture	Quizzes and Exams
15	2	Acquired General Toxicological Knowledge	Mutagenesis	Lecture	Quizzes and Exams
16	Students' seminars				

11. Course Evaluation

- 20M Theoretical assessment ;
(paper-based mid-term exam)
- 20M practical assessment (attendance + quiz)
- 60M paper-based theoretical final exam

100 M total

12. Learning and Teaching Resources

Required textbooks (curricular books, if a	“ Casarett and Doull, Toxicology, the Basic Science of Poisons; Fourth edition. (2021)
Main references (sources)	“ Casarett and Doull, Toxicology, the Basic Science of Poisons; Fourth edition. (2021)
Recommended books and references (scientific journals, reports...)	Toxicological books in college library.
Electronic References, Websites	PubMed (https://pubmed.ncbi.nlm.nih.gov/) Medscape (https://www.medscape.com/) UpToDate (https://www.uptodate.com/)

