

## Description Course

<b>Course Name .1</b>	
Clinical Toxicology	
<b>Course Code .2</b>	
516	
<b>Semester/Year .3</b>	
5th Class, 1st Semester	
<b>Date this description was prepared .4</b>	
<b>Available attendance forms .5</b>	
Physical attendance	
<b>(Number of academic hours (total) / number of units (total).6</b>	
(hours Theoretical and Lab (45 units 60	
<b>:(Name of course coordinator(s) .7</b>	
Name : Assist. Prof. Dr. Ahsan Falah Bairam	
<b>Course objectives .8</b>	
<b>Objectives of the study subject</b>	<p>The primary goal of Toxicology is to provide students the ability-1 to understand the concept of toxicology by providing them with the principles and skills required to deal with the toxicity of chemicals and drugs in clinical settings.</p> <p>Also, it provides the students the ability to correlate signs and -2 symptoms of toxicity with the analytical data, and know how to establish preventive and therapeutic measures for poisoning cases.</p> <p>Introducing pharmacy students to the different drug groups -3 toxicity that affect the body different system and learn different strategies that used in treating these toxicity.</p>
<b>Teaching and learning strategies .9</b>	

<p><b>Education strategies</b></p> <p><b>Learning strategies</b></p>	<ul style="list-style-type: none"> <li>Brainstorming strategy -</li> <li>Teamwork strategy -</li> <li>Discussion strategy -</li> <li>Case study strategy -</li> <li>Inductive teaching strategy -</li> <li>Concept mapping strategy -</li> <li>Practical field training strategy -</li> <li>Self-learning strategy -</li> <li>E-learning strategy -</li>   <li>Study strategy -</li> <li>Conclusion strategy -</li> <li>Spaced practice strategy -</li> <li>Strategy for switching between ideas -</li> <li>Examples strategy -</li> </ul>
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**Course structure .10**

Week	Hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	2 •  2 •	<p><b>Cognitive outputs</b> the student should -1 be know the concept .of toxicology science know the causes, -2 symptoms, and diagnosis of drug . toxicity How to treat -3 patient with drug toxicity and trying to educate him about right dose and use of .drug</p>	<ul style="list-style-type: none"> <li>Introduction to • toxicology</li>   <li>Laboratory • principles of . Toxicology</li> </ul>	<p style="text-align: center;">the blackboard PowerPoint slides E-Learning</p>	<p>Reports, assignments, oral and written theoretical examinations , semi-semester and semester Conduct- laboratory experiments</p>
2	2 •  2 •	<p><b>Acquiring skills</b> Skill in drug - education for .patients The skill of - treating with drug toxicity and how taken the required information from approved sources</p>	<ul style="list-style-type: none"> <li>Beta-blockers drugs • .toxicity</li>   <li>Case on • Acetaminophen poisoning</li> </ul>	<p style="text-align: center;">the blackboard PowerPoint slides E-Learning</p>	<p>Reports, assignments, oral and written theoretical examinations , semi-semester and semester Conduct- laboratory experiments</p>

3	2 •  2 •	<p>Acquire skill in - writing scientific reports</p> <p><b>Emotional and value outcomes</b></p> <p>Thinking skills - through translating, analysing, evaluating and extracting ideas</p> <p>Instilling moral - values for proper dealing with patients</p>	<p>Calcium channel blockers toxicity •</p> <p>Case on Acetaminophen poisoning •</p>	<p>the blackboard PowerPoint slides E-Learning</p>	<p>Reports, assignments, oral and written theoretical examinations , semi-semester and semester Conduct-laboratory experiments</p>
4	2 •  2 •	<p>Transferable general and qualifying skills (other skills related to employability and personal .(development</p> <p>Performing practical - experiments</p> <p>Acquiring skill in - using computers</p> <p>Giving the student - confidence through discussing seminars</p> <p>Acquire skill in - writing reports -</p>	<p>ACEI toxicity •</p> <p>Salicylate: evaluation of urine analysis •</p>	<p>the blackboard PowerPoint slides E-Learning</p>	<p>Reports, assignments, oral and written theoretical examinations , semi-semester and semester Conduct-laboratory experiments</p>
5	2 •  2 •	<p>Acquire skill in - writing reports -</p>	<p>Antiarrhythmic drug toxicity •</p> <p>Salicylate: evaluation of urine analysis •</p>	<p>the blackboard PowerPoint slides E-Learning</p>	<p>Reports, assignments, oral and written theoretical examinations , semi-semester and semester Conduct-laboratory experiments</p>
6	2 •  2 •		<p>CNS stimulant toxicity •</p> <p>Digoxin toxicity •</p>	<p>the blackboard PowerPoint slides E-Learning</p>	<p>Reports, assignments, oral and written theoretical examinations , semi-semester and semester</p>

					Conduct-laboratory experiments
7	2 • 2 •		NSAID toxicity • Cyanide toxicity •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester Conduct-laboratory experiments
8	2 • 2 •		Vitamin toxicity • Cyanide toxicity •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester Conduct-laboratory experiments
9	2 • 2 •		Anticholinergic drug toxicity • Evaluation of cases of toxicity with antiparkinsonian drugs •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester Conduct-laboratory experiments
10	2 • 2 •		hypoglycemic drugs toxicity • Evaluation of cases of toxicity with antiparkinsonian drugs •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester

					er and semester Conduct-laboratory experiments
11	2 • 2 •		Tricyclic antidepressants toxicity • Phenothiazine derivatives; barbiturates •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester Conduct-laboratory experiments
12	2 • 2 •		Drug of Abuse: Opioids; Cocaine • Evaluation of drug toxicity in human •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester Conduct-laboratory experiments
13	2 • 2 •		Chemical and Environmental Toxins • Evaluation of drug toxicity in human •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations, semi-semester and semester Conduct-laboratory experiments
14	2 • 2 •		Botanicals and plants-derived toxins; Toxic Plants • Cases on toxicity with foods and •	the blackboard PowerPoint slides E-Learning	Reports, assignments, oral and written theoretical examinations

			<p>dietary supplements</p>		<p>semi-semester and semester Conduct-laboratory experiments</p>
15	<p>2 •</p> <p>2 •</p>		<p>Botanicals and plants-derived toxins; Poisonous mushrooms</p> <p>Cases on toxicity with foods and dietary supplements</p> <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>	<p>the blackboard PowerPoint slides E-Learning</p>	<p>Reports, assignments, oral and written theoretical examinations</p> <p>semi-semester and semester Conduct-laboratory experiments</p>

### Course evaluation .11

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation and daily, oral, and monthly exams  
Editorial, reports, etc

.Practical exam 20 marks -  
The midterm exam is 20 marks -  
The final exam 60 marks -

### Learning and teaching resources .12

methodology, if textbooks Required any

***Gossel TA, Bricker TD, (Eds.); Principles of Clinical Toxicology; latest Edition***

(Main references (sources

**Casarett & Doull's -Toxicology : The Basic Science of .Poisons: 9 th Edition**

Recommended supporting books and references (scientific journals, (reports

references , websites