University : Mansoura University

Faculty : Faculty of Pharmacy

Department :

1- Course data :-

Code:	PH519					
Course title:	Toxicology and Forensic Medicine					
Level:	Five					
Program Title:	• pharmaceutical sciences					
Specialization:	Major					
Teaching Hours:	**Theoretical:**	2	**Tutorial:**		**Practical:**	1

2- Course aims :-

1. To understand the basic principles of toxicology and the different disciplines of toxicology.
2. To gain knowledge regarding the supportive measures, therapeutic interventions, specific antidotes as general guidelines of treatment modalities.
3. To learn the basics of clinical toxicology that will enable the student to diagnose and manage intoxicated patients.
4. To understand the serious consequences of exposure to therapeutic drugs, environmental and occupational chemicals

3- Intended learning outcomes of course (ILO'S) :-

a- Knowledge and understanding

1. [a17] Summarize the toxic profile of various drugs and other xenobiotics including sources, identification, symptoms, management and control and first aid measures.

b- Intellectual skills

1. [b11] Assess possible drug interactions, adverse drug reactions, pharmacovigilance and other drug-related problems, as essential issues in implementing pharmaceutical care.
2. [b15] Estimate social health hazards and drug abuse, misuse and exposure to toxic agents.

c- Professional and practical skills

1. [c7] Assess toxicity profiles of different xenobiotics and detect toxins in various biological samples.

d- General and transferable skills

1. [d1] Communicate clearly by verbal and written means with patients and other health care professionals.
2. [d3] Interact effectively in team working.
3. [d9] Promote critical thinking, problem-solving, decision-making, and time managing capabilities.

4- Course contents :-

No	Topics	Week
1	principles and introduction of toxicology	0.5
2	clinical toxicology	2
3	environmental and occupational toxicology	2
4	heavy metal toxicity	1.5
5	Animal, plant and marine poisons	2
6	drug induced toxicity and drug ubuse	2
7	forensic medicine	2
8	Acute toxicity determination	1
9	Cyanide toxicity	1
10	Cardiac glycosides toxicity	1
11	CNS stimulant toxicity	1
12	Insecticide toxicity	1

13	Nicotine toxicity	1
14	Aspirin toxicity	1
15	case study 1 & 2	1
16	case study 3 & 4	1
17	case study 5 & 6	1
18	case study 7 & 8	1

5- Teaching and learning methods :-

S	Method	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	black board	a17	b11,b15		d1
2	self learning	a17	b11,b15	c7	d1,d3,d9
3	case study	a17	b11,b15	c7	d1,d3,d9
4	data show	a17	b11,b15	c7	d1,d3,d9

6- Teaching and learning methods of disables :-

1. not found

7- Student assessment :-

a- Student assessment methods

No	Assessment Method	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	theoretical exam	a17	b11,b15		d1
2	practical exam	a17	b11,b15	c7	d1,d3
3	midterm exam	a17	b11,b15		d1
4	oral exam	a17	b11,b15	c7	d1,d3,d9

b- Assessment schedule

No	Method	Week
1	theoretical exam	15
2	practical exam	12
3	midterm exam	7
4	oral exam	15

c- Weighting of assessments

No	Method	Weight
1	theoretical exam	50

2	practical exam	25
3	midterm exam	10
4	oral exam	15
Total		100%

8- List of references

S	Item	Type
1	tutorial Toxicology & Forensic chemistry book	Course notes
2	Poisoning & Toxicology Compendium by Leikin, Jerrold B. LexiComp,U.S. (1998)	Books
3	Churchill's Pocketbook of Toxicology(Alisonl, Jones, PaulI, Dargan,2007)	Books
4	Goldfrank's Mannual of Toxicologic emergencies (Michael J Darelano 2002)	Books
5	up-to-date, Medscape, pubmed,.....	Web sites

9- Matrix of knowledge and skills of the course

S	Course contents	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	principles and introduction of toxicology	a17	b11		d1
2	clinical toxicology	a17	b11		d1,d3
3	environmental and occupational toxicology	a17	b11,b15		d1,d3
4	heavy metal toxicity	a17	b11,b15		d1,d3
5	Animal, plant and marine poisons	a17	b11,b15		d1,d3
6	drug induced toxicity and drug ubuse	a17	b11,b15		d1,d9
7	forensic medicine	a17	b11,b15		d1,d3
8	Acute toxicity determination	a17	b11,b15	c7	d1,d3
9	Cyanide toxicity	a17	b11,b15	c7	d1,d3
10	Cardiac glycosides toxicity	a17	b11	c7	d1,d3
11	CNS stimulant toxicity	a17	b11,b15	c7	d1,d3
12	Insecticide toxicity	a17	b11	c7	d1,d3
13	Nicotine toxicity	a17	b11,b15	c7	d1,d3

14	Aspirin toxicity	a17	b11,b15	c7	d1,d3,d9
15	case study 1 & 2	a17	b11,b15	c7	d1,d3,d9
16	case study 3 & 4	a17	b11,b15	c7	d1,d3,d9
17	case study 5 & 6	a17	b11,b15	c7	d1,d3,d9
18	case study 7 & 8	a17	b11,b15	c7	d1,d3,d9

Course Coordinator(s): -

1. Ghada Mohamed Sedek Bostan

Head of department: -

Ghada Mohamed Sedek Bostan