COURSE SPECIFICATION

(Clinical Toxicology)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate Doctorate degree of Forensic Medicine and Clinical Toxicology/ FNST 600
(2) Department offering the programme:	Forensic Medicine & Clinical Toxicology Department
(3) Department responsible for teaching the course:	Forensic Medicine & Clinical Toxicology Department.
(4) Part of the programme:	Semesters III, IV, V and VI
(5) Date of approval by the Department`s council	25/7/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Clinical Toxicology
(8) Course code:	Lectures: FNST 619 CT Practical: FNST 619CTC
(9) Total Credit hours	18 hours (12 h lectures & 6 h clinical and practical)
(10) Total teaching hours:	360 hours (180 h lectures, 180 h clinical & practical)

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1. Prepare physicians to be capable of practicing medical toxicology in academic and clinical settings.

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1: Recognize general guidelines in management of poisoned cases.
A2: Enumerate environmental &industrial & household products.
A3: Identify toxic metals and trace elements.
A4: Discuss toxic effects of inhalants and volatile poisons.
A5: Classify pesticides and describe their acute and chronic toxicity.
A6: Identify toxic effect of alkaloids and synthetic drugs.
A7: Explain addiction theories and discuss acute and chronic manifestation of addictive and psychoactive substances.
A8: Discuss food and animal poisoning.
A9: Identify toxic applications of stem cells and nanotoxicology.
A10: Classify chemical weapons and their effects.
A11: Discuss management of radiation and toxic hazardous incidents.

B- Intellectual skills

B1: Differentiate between various poisoning categories and interpret data to reach a proper diagnosis.
B2: Select appropriate medical investigative tools in a cost-effective, ethical and useful manner.
B3: Assess individual and group perception of health outcomes and exposure to health hazards.
B4: Design emergency or disaster plans for the workplace and/or the community.

C- Professional/practical skills

C1: Construct proper clinical toxicology reports.
C2: Demonstrate emergent versus non-emergent toxic conditions and implement an appropriate plan of care.
C3: Apply the international guidelines in management of different toxicological cases attending the unit in emergency hospital and plan to improve the performance of the professional practice and use of the technological means to serve the professional practice.

D- Communication & Transferable skills

D1: Communicate effectively with patients, families, as appropriate and practice effectively delivering bad news to the patient.

D2: Contact effectively with physicians, other health professionals, and health related agencies.

D3: Use health care information system and internet call centers within the poisoning unit in improving patient care and keep patient medical records.

D4: Deal with cases' information and records according to principles of medical ethics.

D5: Apply presentation skills and case management professionally.

(3) Course content:

a. Lectures:

Subject	Hours
General guidelines in management of poisoned cases	10
Environmental &industrial & household products	10
Toxic metals and trace elements	15
Toxic inhalants	12
Pesticides	15
Toxic alkaloids	15
Volatile poisons	15
Synthetic drugs	20
Addiction theories and addictive substances	16
Psychoactive substances	4
Food poisoning	15
Animal Poisoning	15
Stem cells & Toxicology	5
Management of Radiation incidents	3
Chemical weapons	3
Nanotoxicology	2
Management of toxic hazardous incidents	5
Total	180

b. Clinical and practical:

Subject	Hours
General management of poisoned cases	20
Environmental & industrial & household products	10
Toxic metals and trace elements	15
Toxic inhalants	15
Pesticides	20
Toxic alkaloids	15
Volatile poisons	15
Synthetic drugs	20
Addiction cases	16
Psychoactive substances	4
Food poisoning	15
Animal Poisoning	15
Total	180

(4) Teaching methods:

4.1: Lectures
4.2: Essay discussion
4.3: Case scenarios
4.4: Discussion toxicology case reports (Recorded in poisoning unit-Mansoura Emergency Hospital)
4.5: Attend shifts in poisoning unit-Mansoura Emergency Hospital

(5) Assessment methods:

5.1:Written exam & MCQ for assessment of A1-11, B 1-4, C1-3.
5.2: OSCE/OSPE of C1-3, B 1-4, D1-5.
5.3:Structured oral exam for assessment of A1-11, B 1-4, C1-3.

Assessment schedule:
Final exam at 36th month from admission to MD degree with total of 540 marks
Percentage of each Assessment to the total mark:

Written exam & MCQ :	240 marks represent 44.5%
OSCE:	100 marks represent 18.5%
Structured oral exam :	100 marks represent 18.5%
OSPE:	100 marks represent 18.5%
Other assessment without marks:	Logbook activities

(6) References of the course:

Text books:

- **Critical Care Toxicology-Diagnosis and Management of the Critically Patients, Jeffery Brent.**
- **Clinical management of poisoning and drug overdose, Haddad and Winchester`s.**

(7) Facilities and resources mandatory for course completion:

Lecture halls and data show.
Laboratory
Grand rounds

Course coordinator: Prof. Dr. Sahar Abdelaziz El Dakroory
Prof. Dr. Amal Abd El- Salam Al Bakary
Dr. Shabaan AbdelFattah

Head of the department: Prof. Dr. Sahar Abdelaziz El Dakroory

Date: