



COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	Neurotoxicology Fellowship(NT)
(2) Part of the programme.	Semester 4
(3) Date of approval of programme specification by Faculty council	9/8/2016
(4) Course title.	Reviews of the neuronal impact of drugs of abuse
(5) Course code.	NT4
(6) Total teaching hours.	9 credit hours

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows.

- Provide in-depth knowledge of drugs abuse
- Develop updated concepts clinical management of drug abuse
- Identify how to study animal models of addiction

(2) Intended Learning Outcomes (ILOs).

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

A- Knowledge and Understanding

A2. To Understand the characteristics of the nerves that make them a target of neurotoxicants.

B- Intellectual skills

B1 To Identify sites and mechanisms of neurotoxicity, how chemicals affect the nervous system, effects of human-made neurotoxins, as well as those of natural origin.

C- Professional/practical skills

c1- Design Animal Models for Neurotoxicity

c2- Study effect of neurotoxicants on different cell systems

D- Communication & Transferable skills

D5. Apply safety and infection control measures during practice.

(3) Course content: Compulsory

Lectures: (24 weeks).

Course title	Code	Hours/ Lectures	Credit Hours
Drug of abuse: Introduction to different drugs of abuse Drug abuse as a chronic ORGANIC disease Structural changes in drug abuse Theories behind addiction: reward system Animal models for drug abuse	NT4	12 12 12 12 12	9

(4) Teaching methods:

- 4.1: Online lectures with discussions, quizzes
- 4.2: Online problem –solving case scenarios
- 4.3 Clinical rounds in toxicology unit
- 4.4 Practical Training in Experimental neurology Unit (MERC)

(5) Assessment methods:

- Online MCQs and EMQs exam after end of 1st semester
- Assessment of clinical traineeship: logbook
- writing a review article about one theme of the course

(6) References of the course:

Textbooks

- Mammalian Toxicology MB Abou Donia, Wiley2nd Edition
- Neurotoxicology: MB Abou Donia, CRC
- Neuroscience; Dale Purves, et al., Sinauer Press, 5th Ed, 2012

Periodicals

- Neurotoxicology and Teratology

- Neurotoxicology
- Neurotoxicity Research
- Experimental Neurology

(7) Facilities and resources mandatory for course completion.

Intranet with a vast learning material

Program specification and handbooks

Candidates logbook

A very rich library and computer laboratories

Course director:

Dr. : Mohamed Salama

Course co-ordinators:

Dr. Shaaban El Mosallamy

Dr. Mohamed El Gamal

Date: