



COURSE SPECIFICATION

(Genetics & Molecular 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:	Pediatric department & Forensic Medicine & Clinical Toxicology Department.
(4) Part of the programme:	Semester I
(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:	Genetic & Molecular Toxicology
(8) Course code:	FNST 619 MT
(9) Total Credit hours	5 hours
(10) Total teaching hours:	75 hours

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1. To shed the light on the recent molecular and genetic principles, their possible application in clinical toxicology field.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1: Discuss basics and principles of genetics and application of toxicogenomics in assessment of toxicity on different body organs.

B- Intellectual skills

B1: Select appropriate medical investigative tools in a cost-effective, ethical and useful manner.

(4) Course content:

Title	Hours
Basic Genetics	30
Genetic Toxicology (Introduction)	5
Application of Toxicogenomics in Hepatic Systems Toxicology	8
Application of Toxicogenomics in drug development	6
Toxicogenomics Applied to Cardiovascular Toxicity	8
Toxicogenomics Applied to Nephrotoxicity	5
Genetic Variability: Implications for Toxicogenomic Research)	5

Toxicogenomics Applied to Teratogenicity	4
Toxicogenomics Applied to Endocrine Disruption	4
Total hours	75

(5) Teaching methods:

4.1: Lectures

(6) Assessment methods:

5.1: Written exam for assessment of A 1. B 1.

5.2: MCQ for assessment of A 1. B 1.

Percentage of each assessment to the total mark:

Written exam & MCQ of General principles of Genetics =200 marks.

Other assessment without marks: log book.

(7) References of the course:

Hand books: Principles of Genetic Toxicology, David Brusick.

Principles of Toxicology, Karen E.Stine, Thomas M.Brown.

(8) Facilities and resources mandatory for course completion:

Lecture halls and data show.

Course coordinators:

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 Eldakroory

Date: