



## COURSE SPECIFICATION

### (Pharmacology course)

Faculty of Medicine- Mansoura University

#### (A) Administrative information

(1) Programme offering the course:	Postgraduate Master degree of Forensic Medicine and Clinical Toxicology/ FNST 500
(2) Department offering the programme:	Forensic Medicine & Clinical Toxicology Department
(3) Department responsible for teaching the course:	Clinical Pharmacology Department.
(4) Part of the programme:	First part
(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:	Pharmacology
(8) Course code:	FNST 506
(9) Total Credit hours	1 hour
(10) Total teaching hours:	15 hours

## **(B) Professional information**

### **(1) Course Aims:**

The broad aims of the course are as follows:

-To have knowledge and understanding of pharmacological basis of therapy in the field of Clinical Toxicology

### **(2) Intended Learning Outcomes (ILOs):**

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

#### **A- Knowledge and Understanding**

A1- Define the pharmacokinetic, pharmacodynamics and pharmacotherapeutic properties of different groups of drugs affecting body systems.

A2- Record the adverse effects of commonly used drug groups, and their management.

A3- Describe drug interactions and contraindications of drugs in order to avoid harm to the patients.

A4- Describe the mechanisms of action of drugs with regard pathophysiology of common diseases and recognize the rationale for proper choice of drugs in treating them.

A5- Discuss the principles, indications, the relative advantages (benefits) disadvantages (risks) of various pharmacotherapy modalities.

#### **B- Intellectual skills**

B1- Match proper drugs for selected important diseases based on patient's age, weight and health condition.

### **(3) Course content:**

Title	Hours
<b>Harmful effects of drugs:</b> <ul style="list-style-type: none"><li>• General mechanisms of cell damage and cell death, including hepatotoxicity and nephrotoxicity.</li><li>• Mutagenesis, carcinogenesis and teratogenesis.</li><li>• Allergic reactions to drugs.</li></ul> <b>Drug interactions.</b> <b>Water and electrolytes balance, acidosis and alkalosis.</b>	3
<b>General Principles, Kinetics &amp; dynamics drugs in common use for toxicologists as:</b> <ul style="list-style-type: none"><li>• Chemotherapeutic agents.</li><li>• Autonomic, cardiovascular</li></ul>	5
<b>General Principles, Kinetics &amp; dynamics drugs in common use for toxicologists as:</b> <ul style="list-style-type: none"><li>• C.N.S drugs.</li></ul>	4
<b>General Principles, Kinetics &amp; dynamics drugs in common use for toxicologists as:</b> <ul style="list-style-type: none"><li>• Non-therapeutic drugs e.g. Ethanol, nicotine and cannabis.</li><li>• Drug dependence.</li></ul>	3
<b>Total teaching hours</b>	15 hours

**(4) Teaching methods:**

**4.1: Lectures**

**(5) Assessment methods:**

**5.1: Written exam, MCQ & Structured oral exam for assessment of A1-A5, B1.**

**Assessment schedule:**

Final exam at 6<sup>th</sup> month from admission to Master degree with total of 300 marks

**Percentage of each Assessment to the total mark:**

Written exam & MCQ: 180 marks represent 60% (144 marks written and 36 (20%) marks MCQ).

Structured oral exam : 120 marks represent 40%

**Other assessment without marks:** Logbook activities

**(6) References of the course:**

**Text books:**

**Pharmacology and therapeutics (Goodman) [Last edition].**

**Basic and clinical pharmacology (Katzung) [Last edition].**

**Pharmacology (Rang and Dale) [last edition].**

**Drug induced diseases (James E. Tisdale, Douglas A. Miller) [Last edition].**

**Modern pharmacology (Charles R. Craig, Robert E. Stitzel) [Last edition].**

**(7) 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. Manar Adel Helmy**

**Head of the department:**

**Prof. Dr. Sahar Abdelaziz El Dakroory**

**Date:**