COURSE SPECIFICATION

Clinical Pharmacology

Endocrinology, Diabetes, Clinical Nutrition and Metabolism

MD

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate MD program of **Endocrinology, diabetes ,clinical nutrition and metabolism. EDCNM600**
(2) Department offering the programme:	Internal medicine department **(Endocrinology , diabetes and metabolism unit)**
(3) Department responsible for teaching the course:	Internal medicine department **(Endocrinology , diabetes and metabolism unit) Clinical pharmacology department**
(4) Part of the programme:	First part (first semester)
(5) Date of approval by the Department`s council	12/7 / 2016
(6) Date of last approval of programme specification by Faculty council	9/8 /2016
(7) Course title:	**Clinical Pharmacology**
(8) Course code:	EDCNM 606 / EDCNM 610 CP
(9) Credit hours	1 hour

(10) Total teaching hours:	15

(B) Professional information

(1) Course Aims:

Provide candidate with a basic knowledge in clinical pharmacology necessary for safe prescribing of drugs related to diabetes and endocrinology

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1 Recall Basics of drug Pharmacokinetis and pharmacodynamics

A2 Recognize general drug effect and drug interaction

A3 Recognize specific modifications in drugs prescription in pregnancy and geriatric population

A4 Discuss use of growth hormone and growth hormone antagonists

A5 Recognize theraputics of Posterior pituitary hormones and antagonists

A6 Recognize theraputic use of gonadotrophin and analogs, sex hormones and their antagonists

A7 Define hormone replacement therapy

A8 Recall basic pharmacology of thyroid & anti-thyroid drugs

A9 Recognize basics and precautions of corticosteroid therapy, and glucocorticoid antagonist

A10 Explain mechanism of action, adverse effect of different oral antidiabetic drugs

A11 Recognize different types of insulin and insulin analogue and treatment of induced hypoglycemia

A12 Identify new drugs in treatment of diabetes

A13 Recognize pharmacology of drug used for weight loss

A14 Explain mechanism of action and side effect of drugs used for hyperurecemia

A15 Explain mechanism of action and side effect of lipid lowering drugs

A16 Recognise the use of hormones in non endocrinal diseases

A17 Identify endocrinal disorders related to non endocrinal drugs

B- Intellectual skills

B1 Apply basic pharmacology in safe prescribing

B2 Modify drug therapy in relation to patient co morbidities

(3)Course content:

Subject	Lectures	Seminar
General Pharmacology Pharmacokinetic Processes Pharmacodynamic Process Drug Effect Drug Interactions Drug use in pregnancy and in geriatrics	2	
2. Pituitary Growth Hormones and antagonists Oxytocin & its antagonists Vasopresin & its antagonists	2	
4. Gonadol Hormones & Inhibitors Estrogens, progestins, other ovarian hormones, oral contraceptives Gonadotoopin releasing hormones & its analogs ovulation – inducing agents Dopamine antagonist Hormone replacement therapy Androgens &, anti-androgens, & male contraception anabolic steroids	2	

5. Thyroid Basic pharmacology of thyroid & anti-thyroid drugs	1	
6. Corticosteroid therapy and gluco-cortical antagonists	1	
7. anti-diabetic drugs Insulin oral anti-diabetic agents New anti-diabetic agents islet amyloid polypeptide (IAPP, amylin) Glucagon	2	
8. metabolic syndrome • Weight loosing drugs • Hypo uricemic drugs • Lipid lowering drugs	2	1
9.Endocrine diseases caused by non endocrinal drugs		1
10.Use of hormones in non endocrinal diseases		1
Total teaching hours	**15**	

(4) Teaching methods:

4a Lecture

4b Seminar

(5) Assessment methods:

Written exam 80 marks
MCQ Exam 20 marks

To be eligible for the final exam , the candidate must have , fulfilled the credit hours of the courses and log book activities .
The candidate must earn 60% of the marks to pass the exam.

(6) References of the course:

6a. Text books:

1. Williams textbook of endocrinology

2.

(7) Facilities and resources mandatory for course completion:

- Lecture rooms: available in the department
- library
- Computer laboratories with a wide range of software
- Intranet with a wide range of learning support material

Course coordinator:

Prof Nagy Shaaban, Head of endocrinology and diabetes unit

Prof Hanan Gawish, Professor of internal medicine, endocrinology and diabetes unit.

Prof Manal Tarshoby, Professor of internal medicine, endocrinology and diabetes unit.

Head of the department:

Prof Salah Elgamal, Professor of internal medicine

Date: 23 /4/2016