COURSE SPECIFICATION

Clinical immunology & genetics

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 Pathology 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 immunology & genetics**
(8) Course code:	EDCNM610CG / EDCNM630
(9) Credit hours	1 hour
(10) Total teaching hours:	15

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

The course will be a preparatory course for the postgraduate students to acquire knowledge and understanding of the genetic and immunological basis of endocrine disorders to facilitate their study of these disorders during next semesters.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A 1 **Recall the basic principles of human genetics**

A 2 **Describe the recombinant DNA technology , genomics and proteomics**

A 4 **Recognize basics of genetic testing and family screening**

A 5 **Recognize cells and cytokines involved in innate immunity**

A6. Demonstrate the mechanism of phagocytosis.

A7. Describe role of complement in immune response.

A8. Identify cellular and humoral immune response.

A 9. **Describe the role of B cell and Immunoglobulins in humoral immunity.**

A 7 **Illustrate T cell subsets and their role in cell mediated immunity.**

A8. Identify MHC system and immune recognition response.

A9. Explain immune tolerance and mechanisms of autoimmunity.

A10. Describe hypersensitivity reactions.

A11. Recall immunodeficiency states.

B- Intellectual skills:

B1 differntiate between innate and acquired immunity.

B 2 differentiate between cellular and humoral immunity.

B 3 analyze clinical scenarios to identify the immunological basis of endocrine disorders.

B 4 Integrate the results laboratory test regarding autoimmune disorders with clinical findings to reach a diagnosis.

B 5 Predict the role of immune deficiency in pathogenesis of endocrine disorders.

B6. Correlate types of hypersensitivity reactions to disease states in endocrine disorders .

(4) Course content:

A- Basic Information

Title: Endocrinology, diabetes, clinical nutrition and metabolism.

Code: EDCNM610CG / EDCNM630 **Credit Hours:** 1 credit hour

B- Course content:

Course is a preparatory course in the first semester

	Lecture	Seminar	Credit hours
1. Basic principles of human genetics	**1**		**1 hour**
2. Recombinant DNA, genomics, proteomics, metabolomics	**1**		
3. Genetic testing and family screening	**1**	**1**	
4. Innate and Adaptive immunity	**1**		
5. B cell and Immunoglobulins	**1**	**1**	
6. T cells & complement	**1**	**1**	
7. MHC system and immune recognition response	**1**	**1**	
8. Immune tolerance and mechanisms of autoimmunity, genetic and environmental influences	**1**	**1**	
9. Hypersensitivity	**1**		
10. Immune deficiency	**1**		
Total	**15 hours**		

(5) Student 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:

5.1- Course Notes (paper and/or electronic)
5.4- Periodicals, Web Sites, etc. endocrinology, diabetes and metabolism journals.

(7) Facilities and resources mandatory for course completion:

Candidates and their learning are supported in a number of ways:

- Candidates logbook
- Course Specification and Handbooks
- Extensive library and other learning resources
- Computer laboratories with a wide range of software
- Intranet with a wide range of learning support material

Course coordinator:

Prof Nagy Shaaban , Professor of internal medicine, Head of endocrinology unit
Prof Omayma Saleh, Professor of internal medicine, endocrinology and diabetes unit.

Head of the department:

Prof Salah Elgamal, Professor of internal medicine

Date: /2016