Related Cell biology & Genetics COURSE SPECIFICATION

MD Dermatology

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) **Programme offering the course:**	**MD Dermatology**
(2) **Department offering the programme:**	**Dermatology, Andrology and STDs**
(3) **Department responsible for teaching the course:**	**Dermatology, Andrology and STDs**
(4) **Part of the programme:**	**first part**
(5) **Date of approval by the Department`s council**	**3/4/2016**
(6) **Date of last approval of programme specification by Faculty council**	**9/8/2016**
(7) **Course title:**	**Related Cell biology & Genetics**
(8) **Course code:**	**DERM 615**
(9) **Total teaching hours:**	**15**
(10) **Number of credit hours**	**1**

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1- Provides the student with basic and advanced knowledge about Cell biology & Genetics related to the field of Dermatology

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

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

A- Knowledge and Understanding

A 1- Recognize the following:

a) Basics of cells.
b) Cell membrane structure & dynamics.
c) Biology of skin ageing.
d) Principles of genetics.
e) Genomics, proteomics & bioinformatics.

A 2- Describe the following & their disorders in Dermatology:

a) Cell movements
b) Cell cycle
c) Cell divisions.

A 3- Discuss the biology of:

a) Keratinocyte
b) Hair follicle
c) Melanocyte

A 4- Identify the following:

a) Cell signaling & ion channels.

b) Skin barrier.

c) Cell biology of wound healing.

d) Apoptosis.

A 5- Explain the following:

a) Structure & function of genes and chromosomes.

b) Transcription & control of gene expression.

c) Genetics of skin diseases

d) Gene therapy & its role in dermatology

e) Genetic counseling in Dermatology

B-Intellectual skills:

B-1- Compare between types of:

1. Cell movements
2. Cell junctions.

(3) Course content:

Subjects	Total Teaching Hours
1. Basics of cells.	1
2. Cell membrane structure & dynamics.	1
3. Cell movements & their disorders.	1
4. Cell cycle & its disorders.	1
5. Cell divisions & their	1

disorders.	
6. Cell signaling & ion channels.	1
7. Skin barrier.	1
8. Biology of skin ageing.	1
9. Keratinocyte biology.	1
10. Hair follicle biology and Melanocyte biology.	1
11. Cell biology of wound healing. Apoptosis.	1
12. Principles of genetics. Structure & function of genes & chromosomes.	1
13. Transcription & control of gene expression.	1
14. Genomics, proteomics & bioinformatics. Gene therapy & its role in dermatology	1
15. Genetics of skin	1

diseases. Genetic counseling in dermatology	
Total	**15**

(4) Teaching methods:

4.1: Lectures

(5) Assessment methods:

5.1: Written exams for assessment of knowledge and intellectual ILOS.

Assessment schedule:

MCQ Exam at the end of the semester

Final Written exam Assessment one semester after registration of MD degree

Percentage of each Assessment to the total mark:

MCQ Exam 20 % = 20 marks.

Final Written exam 80% = 80 marks.

(6) References of the course:

6.1: Hand books: conferences and Department staff handouts

6.2: Text books: Rook's text book of Dermatology Blackwell USA, 2010, Andrew's Disease of the skin 2006, Habif clinical dermatology, electronic text book of dermatology

6.3: Journals: British Journal of dermatology, Journal of the American Academy of Dermatology, Archives of Dermatology International Journal of Dermatology, Journal of skin surgery,

6.1: Websites: WWW.eblue.org, archderm.ama.org, www.wiley.com, www.telemedicine.org, www.amazon,com

6.1: Others: MD Dermatology course of Cairo University

(7) Facilities and resources mandatory for course completion:

1-Fully Equipped Lecture halls

2-Department library

3-Faculty library

Course coordinator:

Head of the department:

Prof. Ibraheem Abu-Bakr Abdel Hamid, MD

Date: 3/4/2016