COURSE SPECIFICATION of Advanced course in spermatology

MD Andrology and Sexually transmitted infections

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) **Programme offering the course:**	**MD Andrology and Sexually transmitted infections**
(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:**	**second 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:**	**Advanced course in spermatology**
(8) **Course code:**	**ANDRO 615 ST**
(9) **Total teaching hours:**	**45**
(10) **Credit hours**	**3**

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1- Provides the student with advanced knowledge about **spermatology** related to the field of Andrology and Sexually transmitted infections

(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

A1 -Discuss the stages of

1. Sperm formation
2. DNA synthesis
3. Nuclear proteins synthesis.

A2- Recognize the following:

1. Evolutionary biology of spermatozoa
2. Correlation between Spermatozoa and human fertility

A3- Explain Signaling and sperm functions

A4 -Identify Sperm-egg interaction and Epigenetics of fertilization

A5 Outline Sperm motility and Manipulation of sperm cells

A6- Describe anatomy and physiology of accessory sex glands and role of secreted fluids in sperm function

B- Intellectual skills:

B 1- Illustrate stages of sperm formation.

B2- Compare between different methods of sperm cells manipulations.

(3) Course content:

Subjects	Teaching Hours
1. Sperm formation, DNA and nuclear proteins	5
2. Evolutionary biology of spermatozoa	5
3. Anatomy and physiology of accessory sex glands and role of secreted fluids in sperm function	5
4. Signaling and sperm functions	5
5. Sperm motility	5
6. Sperm-egg interaction	5
7. Epigenetics of fertilization	5
8. Manipulation of sperm cells	5
9. Correlation between Spermatozoa and human fertility	5

(4) Teaching methods:

4.1: Lectures

4.2: Workshops

4.3: Grand meetings

4.4: Specialty conferences

(5) Assessment methods:

5.1: Written exams for assessment of knowledge and intellectual ILOS

(6) Assessment schedule:

MCQ Exam at the end of the semester (one semester after MD registration)

Final Written exam Assessment after one semester after MD registration

(7) Percentage of each Assessment to the total mark:

MCQ Exam 20 % = 20 marks.

Final Written exam 80% = 80 marks.

(8) References of the course:

6.1: Hand books: Department staff handouts

6.2: Text books: Andrology: Male Reproductive Health and Dysfunction, E. Nieschlag, H.M. Behre and S. Nieschlag (Editors) 2009, Springer; 3rd ed. Edition, , **Spermatology** E.R.S. Roldan (Ed) & M. Gomendio (Ed) 2007

6.3: Journals: human andrology, fertility sterility

6.1: Websites: www.iasstdaids.org, www.telemedicine.org/std ,and ijsa.rsmjournals.com

(9) Facilities and resources mandatory for course completion:

1- Fully Equipped Lecture halls

2- Department library

3- Faculty library

Course coordinator:

Prof. Samir Elhanbaly, MD

Chairman of the department:

Prof. Ibrahim A. Abdel-Hamid, MD

Date: 3/4/2016