Anatomy and Embryology Related to Andrology & STDs

COURSE SPECIFICATION

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:**	**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:**	**Anatomy and Embryology Related to Andrology & STDs**
(8) **Course code:**	**ANDRO 615 AE**
(9) **Total teaching hours:**	**15**
(10) **Credit hours**	**1**

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1- Provides the student with detailed and advanced knowledge about **Anatomy and Embryology** related to the field of Andrology & Reproduction 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- Recognize stages of Fertilization, Gametogenesis, Implantation, and Embryo development

A2- Describe Development of urogenital system.

A3- Discuss Birth Defects and Prenatal Diagnosis

A4- Identify Principles of:

1. Molecular embryology and stem cells
2. Micromanipulation,
3. Cryobiology
4. Cryopreservation
5. IVF, ICSI and Embryo Culture

A5- Recognize the Ethics and Laws for Embryologists

B- Intellectual skills:

B 1- Illustrate different stages of Development of urogenital system

B 2- Compare between IVF, ICSI and Embryo Culture

(3) Course content:

Subjects	Teaching Hours
1. Fertilization	2
2. Gametogenesis	2
3. Implantation	1
4. Embryo development	2
5. Birth Defects and Prenatal Diagnosis	2
6. Development of urogenital system	2
7. IVF, ICSI and Embryo Culture	1
8. Micromanipulation, Cryobiology and Cryopreservation	1
9. Principles of molecular embryology and stem cells	1
10. Ethics and Law for Embryologists	1

(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, A Practical Guide to Basic Laboratory Andrology by Lars Björndahl, David Mortimer, Christopher L. R. Barratt, and Jose Antonio Castilla Cambridge University Press; 1 edition (2010), Grays anatomy. Human emberyology.

6.3: Journals: human andrology,

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

Chairman of the department:

Prof. Ibrahim A. Abdel-Hamid

Date: 3/4/2016