



COURSE SPECIFICATION of

Advanced course in Embryology MD Andrology and Sexually transmitted infections Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	MD An <mark>dro</mark> logy and Sexually trans <mark>mi</mark> tted 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 Embryology
(8) Course code:	ANDRO 615 AEM
(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 **Embryology** 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-Recognize different stages and recent advances in explanation of Development of urogenital system

- A2- Explain the different aspects of:
 - a) Molecular embryology of Development of urogenital system
 - b) Preimplantation genetic diagnosis and its applications.

A2 - Discuss the following:

- 1. Genetic factors and hormones that determine gender
- 2. Recent advances in sex determination and embryo selection in ICSI

B- Intellectual skills:

- B1- Demonstrate the correlation between stages of Development of urogenital system and different genetic defects.
- B 2- Compare between different hormonal mechanisms of actions that affect stages of Development of urogenital system.

(3) Course content:

Subjects	Teaching hours
a) stages and advances in explanation of	7
Development of urogenital system	
b) Molecular embryology of Development of	10
urogenital system	
c) Preimplantation genetic diagnosis and its	10
applications	
d) Genetic factors and hormones that determine	10
gender	
e) Recent advances in sex determination and embryo	8
selection in ICSI	

(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, 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, MD

Chairman of the department:

Prof. Ibrahim A. Abdel-Hamid, MD

Date: 3/4/2016