COURSE SPECIFICATION

(Pharmaceutical Control of Stem Cells)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate PhD degree of Regenerative Medicine/ RMD
(2) Department offering the programme:	Inter-departmental (Faculty of Medicine)
(3) Department responsible for teaching the course:	**Clinical Pharmacology**
(4) Part of the programme:	Second part (Semester IV)-Elective
(5) Date of approval by Faculty council	9/8/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	**Pharmaceutical Control of Stem Cells**
(8) Course code:	**RMD606PS2**
(9) Total credit hours:	3 Theoretical + 1.5 Laboratory/Practical + 0.5 field work

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

This course provides the students with knowledge about the basics of pharmacological control of endogenous stem cells (insitu transplantation).

Second, student will be aware of transferring scientific research in stem cells field into advanced therapeutics for clinical application

(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

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

A6: Explain molecular pathology of human disease, molecular diagnostics and treatment;

A7: Mention principles of stem cells research and technology.

B- Intellectual skills:

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

B2: Identify the ethical implications of the work in the field of regenerative medicine.

B5: Display an awareness of the existence and nature of value judgments.

B7: Display awareness of the possibilities and limits of stem cells.

C- Professional/practical skills:

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

C1: Practice appropriate laboratory skills, including safe working practices where relevant.

C4: Conduct research of regenerative medicine in vivo.

D- Communication & Transferable skills:

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

D1: Communicate effectively using a variety of formats.

D2: Use effectively a range of information sources.

D3: Organize and present intellectual argument commensurate with the level of award.

D4: Work effectively both alone (e.g. on assignments or during the project) and as part of a team (e.g. in group work, during group discussions and workshops).

D5: Demonstrate key skills in the retrieval, preparation, analysis and interpretation of information from different sources.

D6: Acquire continued self-managed professional development.

D7: Apply the principle of reflective practice.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Hours
Pharmaceutical control of stem cells / RMD606PS2			**15W**		
1. Endogenous stem cells 1 2. Endogenous stem cells 2 3. Endogenous stem cells 3 4. Control of stem cells 5. In situ transplantation 1 6. In situ transplantation 2 7. Transplantation premedication 8. Adverse effects of stem cell transplantation 9. Post-Transplantation screening	3		1.5	0.5	**5 hours**

(4) Teaching methods:

4.1: Lectures

4.2: Practical lab work

(5) Assessment methods:

5.1: Exam Description

The final exam is composed of:

Two written exams (100 marks) **2 hours (Short Essay questions 1 hours 80 marks + MCQ 1 hour 20 marks)**

Other logbook activities (Practical part of the course and scientific activities) are assessed by supervisor of the activity without marks

5.2: Marks

Course/ code	Marks					
	Written Exam			Practical Exam	Oral Exam	Total
	Short Essay questions	MCQ	total			
Pharmaceutical control of stem cells/ RMD606PS2	**80**	**20**	**100**	--	--	**100**

(6) References of the course:

Text books: Translational Medicine and Drug Discovery

(7) Facilities and resources mandatory for course completion:

Lecture halls and data show and MERC labs

Course coordinator: Dr. Mohamed Salama

Programme Director: Prof.Mohamed Sobh

Date: