COURSE SPECIFICATION

(Organ Systems and Diseases)

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 Pathology Department
(4) Part of the programme:	Second part (Semester VI)-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:	Organ Systems and Diseases
(8) Course code:	RMD630PS4
(9) Total credit hours:	2 Theoretical + 1.5 Laboratory/Practical + 0.5 field work

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follow:

This course provide students with knowledge about clinical concepts of diseases in which regenerative medicine could provide therapeutic benefit. Focus areas include neuroregenerative medicine in brain and spinal cord diseases, retinal degeneration, diabetes, cardiovascular disease, haematopoiesis, angiology, and bone and cartilage engineering. They will have gained an overview of structure and function of the affected organ systems, including their development, morphology and physiology. The course also introduces students to disease pathophysiology, clinical presentation and current standards of care, current problems and concepts of regenerative approaches in these diseases, translational aspects of regenerative medicine, and strategies/tools for studying regeneration. Students will obtain a basic theoretical knowledge of disease pathology and an advanced knowledge of how regeneration of cells and tissues could be applied to correct the pathology.

(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;

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.

B3: Execute and report a research project in order to develop skills necessary for independent research.

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

B6: Demonstrate, at a level appropriate to the award, a critical approach in enquiry and a readiness to test hypotheses, interpret scientific data and evaluate published literature.

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.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Hours
Organ Systems and Diseases / RMD630PS4			**15W**		
1- Regenerative Medicine 2- Neuro-regenration (Neurodegenerative disorders) 3- Neuro-regenration (Spinal cord injuries) 4- Hepatic regeneration 5- Cardiac regeneration 6- Stem cells in kidney diseases 7- Stem cells in DM 8- Stem cells & other possibilities 9- Immunology 1 10- Immunology 2 11- Immunology 3 12- Immunology 4 13- Immunology 5 14- Immunology 6	2		1.5	0.5	**4 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			
Organ Systems and Diseases/RMD630PS4	**80**	**20**	**100**	--	--	**100**

(6) References of the course:

Text books: Text book of Pathology

(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: