COURSE SPECIFICATION

(Trends in Neuroscience)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	PhD degree of Regenerative Medicine/ RMD
(2) Department offering the programme:	Inter-departmental (Faculty of Medicine)
(3) Department responsible for teaching the course:	**Neurology** Department
(4) Part of the programme:	Second part (Semester V)-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:	**Trends in Neuroscience**
(8) Course code:	**RMD612PS3**
(9) Total credit hours:	3 Theoretical + 1.5 Laboratory/Practical

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

This course provides the students by advanced theoretical knowledge in neuroscience, degeneration and regenerative medicine. This instruction includes state-of-the-art knowledge on the most recent techniques used in experimental neurology.

(2) Intended Learning Outcomes (ILOs):

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.

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.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Hours
Trends in Neuroscience / RMD612PS3			**15W**		
1. Basics of Neuroscience-1 2. Basics of Neuroscience-2 3. The rodents brain atlas 4. Plasticity 5. Insitu transplantation 6. Spinal cord regeneration 7. Neural Stem cells (NSCs) 8. Immunohistochemistry in Neuroscience 9. Neurodegenerative models	3		1.5		4.5 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			
Trends in Neuroscience/ RMD612PS3	**80**	**20**	**100**	--	--	**100**

(6) References of the course:

Text books: Neuroscience

(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: