



COURSE SPECIFICATION

EPS and cardiac pacing

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Program offering the course.	MD degree of cardiovascular medicine
(2) Department offering the program.	Cardiology Department
(3) Department responsible for teaching the course.	Cardiology Department
(4) Part of the program.	2 nd Part
(5) Date of approval by the Department`s council	24-5-2016
(6) Date of last approval of program specification by Faculty council	9-8-2016
(7) Course title.	EPS and cardiac pacing
(8) Course code.	CARD 614 EPS
(9) Total teaching hours.	15 hours
(10) Credit hours	15 hours (15 Lectures & Seminars)

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

To provide the candidate with Updated Knowledge of electrophysiology (EPS) and Cardiac Pacing .

(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- Illustrate anatomy of the cardiac conduction system
- A2- Describe basic electrophysiological studies
- A3- Demonstrate the indications, contraindications, precautions, performance, and complications of the Following :
 - EPS
 - Cardiac Pacing
- A4- Explain Pacemaker modes and timing cycles

B- Intellectual skills

- B1- Interpret direct cardiac mapping : recording potentials directly from the heart
- B2- Interpret normal and Abnormal EPS Studies
- B3- Interpret normal and Abnormal PCM Programming data.

(3) Course content.

Subjects	Lectures	Seminars	Total Teaching Hours
Anatomy of the cardiac conduction system	2 Hours		2
Basic electrophysiology	1 Hours	1 Hours	2
Invasive electrophysiological study	1 Hours	1 Hours	2
Direct cardiac mapping : recording potentials directly from the heart	1 Hours	1 Hours	2
Electrotherapy of cardiac arrhythmias	2 Hours		2
Pacemaker modes and timing cycles	1 Hours	1 Hours	2
Pacemaker indication	1 Hour		1

Subjects	Lectures	Seminars	Total Teaching Hours
Pacemaker complication, troubleshooting & follow up	1 Hours	1 Hours	2
Total Times	15	5	15

(4) Teaching methods:

4.1: Lecture 4.2: Seminars

(5) Assessment methods:

5.1: Written. (for assessment of knowledge skills)

5.2: MCQ. (for assessment of knowledge skills)

Assessment schedule:

1-First Exam . MCQ at end of Attendance of the course .

2-Final Exam at end of course. Written exam

Percentage of each Assessment to the total mark.

1- MCQ Exam 6 marks

2-Written exam marks 24 marks

Total 30 marks

(6) References of the course:

6.1: Text books:

- Braunwald's Heart disease textbook of CVM

- Textbooks of EPS -Textbooks of Cardiac Pacing

6.2: Journals:

- NEJM - The Heart - Circulation - JACC

6.3: Websites:

-Cardiosource - Medscape cardiology - Tctmed.com

-Escardio.org European society of Cardiology

(7) Facilities and resources mandatory for course completion.

Lecture Halls

Course coordinator: Prof Dr Eman ElSafty

Prof Dr Maged Zaghoul

Head of the Department: Prof Dr AbdelRazek Maaty

Date: 8/6/2016