



COURSE SPECIFICATION

(Non Invasive Cardiovascular Imaging)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Master degree of cardiovascular medicine
(2) Department offering the programme:	Cardiovascular Medicine Department
(3) Department responsible for teaching the course:	Cardiovascular Medicine Department
(4) Part of the programme:	Second Part
(5) Date of approval by the Department's council	24-5-2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title:	Non Invasive Cardiovascular Imaging
(8) Course code:	CARD 514NC
(9) Credit hours:	1 credit hours
(10) Total teaching hours:	15 h

(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)

1- To produce graduate able to acquire the competence and experience to effectively interpret different non invasive cardiac imaging

(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 indications and use of echocardiography

A2-Recognize different types of MRI protocols for cardiac scanning

A3-Recognize technique of 4D Echo and strain imaging

A4-Identify indication, contraindications, advantages and disadvantages cardiac CT

A5-Recognize indications and contraindications of different cardiac stress imaging

B- Intellectual skills

B1- Proper use of Echocardiography

B2- Choose the best diagnostic modality in different cardiovascular disorders.

B3- Describe the best way to deal with complications from non invasive cardiac imaging

B4- Interpret Cardiac Ct and MRI

(3) Course content.

Subjects	Lectures	Total Teaching Hours
1- Basic Echocardiography	6	
2- Advanced Echocardiography		
• 4D ECHO	1	
• TEE	1	
• Strain Imaging	1	
• TDI	1	
• Contrast ECHO	1	
• Stress ECHO	1	
3- Cardiac CT	1	
4- Cardiac MRI	1	
5- Cardiac Perfusion Scanning	1	
Total teaching hours	15	15

(4) Teaching methods:

- 4.1: lectures, seminars, workshops
- 4.2: clinical sessions and work experience
- 4.3: Problem solving, case studies
- 4.4: directed and self directed learning activities

(5) Assessment methods:

Assessment schedule:

Assessment 1: Written exam

Assessment 2: MCQ

Percentage of each Assessment:

MCQ 6 marks of the total marks

Written exam: 24 marks of the total marks

Total: 30

(6) References of the course:

- 6.1: Hand books: Oxford handbook of cardiovascular medicine
- 6.2: Text books
 - Feign Baum Echocardiography
 - Washington Manual for ECHO
 - Cardiac Imaging
- 6.3: Journals: Periodicals of American Journal of Cardiology
Periodicals of European Heart Journal
Periodicals of American Heart Journal
- 6.4: Websites: Update guidelines of Cardiac Imaging, echocardiography
 - www.ESC.com, www.ACC.com,

(7) Facilities and resources mandatory for course completion:

Teaching rooms: Patients wards, Echocardiography room, Cardiac CT and MRI in radiology department, myocardial perfusion in radiology department

Course coordinator:

Prof Dr Eman ElSafty, Professor of cardiovascular medicine

Dr. Moheb Magdy, Lecturer of cardiovascular medicine

Head of the department: Prof. AbdelRazek Maaty

Date: 8-6-2016