



COURSE SPECIFICATION

Cardiac assist devices and artificial heart

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Postgraduate MD degree of Cardiothoracic Surgery/CSUR 627
(2) Department offering the programme.	Cardiothoracic Surgery Dept.
(3) Department responsible for teaching the course.	Cardiothoracic Surgery Dept.
(4) Part of the programme.	Second Part
(5) Date of approval by the Department's council	28/3 /2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Cardiac assist devices and artificial heart
(8) Course code.	CADAH 627
(9) Total teaching hours.	15 teaching hours

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows.

- 1- To improve the powers of decision making & problem solving in fields of cardiothoracic surgery.
- 2- To create safe competent cardiothoracic surgeons.

Within the overall aim, the Objectives of the program are as follows :

- 1- Construct a management plan for patients undergoing thoracic surgery.
- 2- Construct a management plan for patients with aortovascular diseases.
- 3- Construct a management plan for patients undergoing cardiac surgeries whether adult or pediatric cardiac surgery.

(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 Identify and describe the congenital anomalies of the heart and thoracic structures
- A2 Discuss the applied anatomy of the heart and thoracic structures with its surgical importance.
- A3 Classify and describe the pathological disorders of the heart and thoracic structures with its surgical importance.
- A4 List techniques and complications of cardiopulmonary bypass, myocardial protection and mechanical support.

(3) Course content:

Subjects	Lectures	practical	Laboratory	Field	Total Teaching Hours
Cardiac assist devices	5				5
Total artificial heart	5				5
Extracorporeal membrane oxygenation	5				5

(4) Teaching methods:

- 4.1 Lectures.
- 4.2. Seminars.
- 4.3. Grand round Discussion.
- 4.4. Journal clubs.

(5) Assessment methods:

- 5.1. Written exam and MCQ exam

Assessment schedule.

Assessment 1. Assessment of the log book every month

Assessment 2 : MCQ exam at the end of the 4th semester

Assessment 3. Final exam at 36th month of admission to MD degree.

Percentage of each Assessment to the total mark.

Written exam. 24 marks

MCQ 6 marks

(6) References of the course: Text books

- Cardiac surgery (Kirklin/Barratt-Boyes)
- Sabiston & Spencer – Surgery of the Chest

(7) Facilities and resources mandatory for course completion.

- Lecture halls
- Data show equipment

Course coordinator:

Dr. Rami Ahmed Sabri

Head of the department:

Prof. Nour Eldin Noaman Gwely

Date: / /