COURSE SPECIFICATION

Cardiac Surgery

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 Surgery
(8) Course code:	CSUG 627 CS
(9) Total teaching hours:	180 teaching hours 120 clinical training 210 field training
(10) Credit hours	12 lectures 4 clinical training 3.5 field training

(B) Professional information

(1) Course Aims:

The broad aims of the course are :

1- To improve the powers of decision making & problem solving in fields of cardiothoracic surgery.

2- To create safe competent cardiothoracic surgeons.

3- Be an effective member in a teamwork.

Within the overall aim, the Objectives of the course are :

1- Construct a management plan for patients with arotovascular diseases.

2- 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 programme, the candidate will be able to:

A- Knowledge and Understanding

Basic knowledge:

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 Interpret symptomatology of cardiothoracic disorders to their anatomical and pathological principles

A5 List techniques and complications of cardiopulmonary bypass, myocardial protection and mechanical support.

B- Intellectual skills

B1 Interpret clinical data to diagnose congenital and acquired heart diseases.
B2 Interpret various investigational and radiological tools to confirm diagnosis
B3 Analyze Case presentation including history taking, clinical examination, investigations& radiology needed and finally differential diagnosis of the case.

C- Professional/practical skills

C1 Evaluate and construct a management plan for patients with aortovascular disease.
C2 Evaluate and construct a management plan for patients undergoing cardiac surgeries whether adult or pediatric cardiac surgeries.

D- Communication & Transferable skills

D1 Create effective doctor/patient communication.
D2 Make clinical decisions and judgments based upon sound evidence for the benefit of individuals and the population served.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
Perioperative Care & CPB	7	6		6	19
Mechanical Circulatory Support	7	6		6	19
Thoracic Aorta	12	6		20	38
Valvular Heart Diseases	12	11		22	45
Coronary Artery Diseases	12	11		22	45
Surgery for myocardial diseases	7				7
surgery for pericardial diseases	7	6		10	23

Miscellaneous CV disorders	7	6		12	25
Transplantation	7				7
Congenital A.S.	5	4		7	16
Percutaneous catheter intervention.	4	3			7
Cardiac pacing in children	4	3		4	11
CBP & hypotheramic circulatory arrest.	4	3		5	12
Myocardial protection in children.	4	3		5	12
Pediatric extracorporeal membrane oxygenation & mechanical circulatory assist devices.	4	3		5	12
Valve replacement in children.	5	3		6	14
Palliative operation	5	3		6	14
CAD in children.	5	3		5	13
ASD.	5	3		6	14
Total anomalies pulmonary venous connections.	5	3		5	13
Isolated VSD, PDA & aorto pulmonary Window.	5	3		6	14
Coarctation of the aorta.	5	3		6	14
Infundibular pulmonary valve & stenosis.	5	3		6	14
Truncus arteriosus	5	3		5	13
ToF.	5	4		8	17
Pulmonary atresia.	5	3		4	12
Complete A.V.C.	5	4		8	17
Double outlet right ventricle	5	3		4	12
Transposition of great arteries	5	4		8	17
Pediatric mitral valve disease.	5	3		2	10

Pediatric cardiac transplantation	2				2

(4) Teaching methods:

4.1 Lectures.

4.2: Seminars.

4.3: Clinical Rounds.

4.4: Operative training.

4.5: Grand round Discussion.

4.6: Journal clubs.

(5) Assessment methods:

5.1: Written exams and MCQ exams for assessment of knowledge & intellectual skills

5.2: OSCE exams (0ral, practical and clinical exams) for assessment of intellectual & practical & transferable skills

Assessment schedule:

Assessment 1:Assessment of the log book every month

Assessment 2 : MCQ exams at the end of 3rd and 4th semisters.

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

Assessment 4 : Final written case commentary exam at 36th month of admission to MD degree

Assessment 5 : OSCE exams (oral, practical and clinical exams) at 36th month of admission to MD degree

Percentage of each Assessment to the total mark:

Written exam: 90 marks

MCQ 30 marks

Case Commentary 30 marks

Clinical exam: 50 mark

Oral exam: 50 mark

Practical exam : 50 mark

(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
- Operative theatres
- Inpatient wards
- Supervised attendance at other centers of cardiac surgery by the candidates

Course coordinator:

Dr. Rami Ahmed Sabri

Head of the department:

Prof. Nour Eldin Noaman Gwely

Date: / /