COURSE SPECIFICATION

(Elective course: cardiovascular and respiratory)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate PhD degree of Pathology
(2) Department offering the programme:	Pathology department
(3) Department responsible for teaching the course:	Pathology department
(4) Part of the programme:	Second part
(5) Date of approval by the Department`s council	26/7/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Cardiovascular and respiratory
(8) Course code:	PATH 605 CR
(9) Total hours:	5 credit hours
(10) Total teaching hours	75 Ours

(B):Professional information

(1) Course Aims:

1-To aquire detailed informations about non neoplastic pulmonary diseases, their pathogenesis, morphologic features , prognosis, fate and complications

2-To provide molecular background for non neoplastic lung lesions

3-To clarify molecular pathogenesis for pleural and pulmonary tumors

4-To enhance ability to differentiate tumors based on morphologic features, and immunohistochemical features

5-To support implementation of different ancillary diagnostic techniques for approaching diagnosis in problematic cases

6-To help correlating pathologic parameters to prognosis and therapy

7- To support applying and integrating data for problem solving in tissue biopsy as well as pulmonary and pleural cytology

8- To help identification of different disease in cardiovascular system

9-To provide the skill for intrepration of myocardial, pulmonary and pleural biopsy

10-To guide applying grading and staging of pulmonary tumors

(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 altered structure and function of the cardiovascular and respiratory systems that are seen in various diseases; definition, etiology, pathogenesis, prognosis, fate & complications of such diseases.

A2: Describe the morphological features of different types of tumors in the cardiovascular and respiratory systems .

A 3: Classify tumors of the cardiovascular and respiratory systems .. Gradding and staging according to the recent WHO classification

A4: Describe and discuss characteristic morphological pattern (macroscopic and microscopic) of different pathologic lesions within cardiovascular and respiratory systems . and their underlying pathogenesis and molecular basis

A5: To identify recent advances in pathology processes and relate structural and functional changes and the associated clinical manifestations

B-Intellectual skills

B1: Interpret findings of pathological specimens effectively

B2: Analyze various gross and microscopic pathologic data resulting from the disease process.

B3: Enlist the differential diagnosis of various gross and microscopic pathologic features to reach proper evidence based diagnosis.

B4: Relate the clinical data, investigational data and patient history to reach proper pathologic diagnosis with proper time managing.

B5: Analyze different problems of misdiagnosis.

B6: Discuss problematic cases with senior staffs and supervisors to improve professional performance.

D- Communication & Transferable skills

D1: Present adequately themselves by improving descriptive capabilities and communication skills and respond positively to feedback.

D2: Respect ethical relationship with staff and ethics in research.

D3: Present attitudes that will maximize their educational experiences via continous search in data base and lifelong learning.

D4: Work in inter-professional teams to enhance patient safety and improve patient care quality.

(3): Course content:

I-Pulmonary pathology

A-Non –neoplastic pulmonary diseases(2 credit hours;30 teaching hour)

1-Anatomy and histology of lung
2-Tissue sampling and preparation
3-Lung defense
4-Congenital and developemental disorders
5-Acute lung injury
6-Aspiration, bronchial obstruction, bronchiectasis , and related disorders
7-Aquired non neoplastic neonatal and pediatric diseases
8-Lung infections
9-Asthma and related eosinophilic infiltrates
10-Histiocytosis and storage diseases
11-Hypersensitivity pneumonitis
12-Granulomatous diseases
13-Interstitial pneumonia

14-Collagen vascular diseases
15-Radiation and drug toxicity
16-Endogenous mineralization, inclusions, and deposition diseases
17-Pneumoconiosis
18-Emphysema and chronic bronchitis
19-Small airway diseases
20-Vascular diseases
21-Lung transplantation pathology
22-Non neoplastic pleural diseases

B-Neoplastic pulmonary diseases(1 credit hour ;15 teaching hours)

1-Preinvasive lesions

2-Pulmonary and pleural tumors

C-Pulmonary and pleural cytology(1 credit hour;15 teaching hours)

II-Cardiovascular system pathology(1 credit hour; 15 teaching hours)

1- Diseases of the heart
2-Diseases of blood vessels
3-Myocardial biopsy
4-Heart transplantation
5-Cardiac valves
6-Coronary artery bypass
7-Cardiac tumors
8-Diseases of pericardium

Assessment schedule:

- Final written exam with total of 80 marks
- MCQ continuous assessment of 20 marks

Other assessment without marks:

1-Attendance Criteria: Minimum acceptance attendance in each course is 75%

2- Log book should be fulfilled and signed by Head of the department

References of the course:

6.1: Hand books: Course notes: Book authorized by department

6.2: Text books: Rubbin's text book of pathology, Ackerman's surgical pathology, Sternberg's surgical pathology & Soft tissue tumors

6.3: Websites:

– http://www.pathmax.com

- United States and Canadian Academy of Pathology (USCAP): http://www.uscap.org/

- The Royal Collage of pathologists: http://www.rcpath.org/

Facilities and resources mandatory for course completion:

□ Lecture halls and data show

□ Pathology labs. in various Mansoura university medical centers□

□ Pathology Archives of slides and tissue for problematic cases

□ Extensive library and other learning resources

□ Computer laboratories with a wide range of software

□ Internet with a wide range of learning support material

Course coordinator: **Dr. Reham Nageeb**

Head of the department: **Prof. Dr. Khaled Zalata**