



COURSE SPECIFICATION

(Special pathology)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Postgraduate master 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.	Special pathology
(8) Course code.	PATH 505 SP
(9) Total credit hours.	13 hours lectures 9 hours practical
(10) Total teaching hours.	195hours lectures 270 hours practical

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows:

1-Teaching of the most common and important diseases of body organs

2-To prepare our candidates to acquire competencies, practical skills and applications relevant to further pathology practice such as:

a-Interpreting different gross and microscopic data.

b-Provide a differential diagnosis

c-Writing pathology report for both histopathology and cytopathology.

(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 body and its major 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 various body organs.

A3: Classify tumors of different body organs. Grading and staging according to the recent WHO classification

A4: Describe and discuss characteristic morphological pattern (macroscopic and microscopic) of different pathologic lesions within different body systems and their underlying pathogenesis and molecular basis such as:

- Inflammatory, degenerative, vascular and neoplastic lesions of the Cardiovascular system
- Dermatopathology including the inflammatory, degenerative, vascular and neoplastic lesions
- Neoplastic and non neoplastic lesions of the respiratory system & mediastinum
- Endocrine system (thyroid, parathyroid, adrenal gland, pancreas, pituitary gland) including hyperplasia, adenomas, carcinomas and hypofunction
- The inflammatory, neoplastic and autoimmune diseases of the gastrointestinal tract, peritoneum & retroperitoneum
- Diseases of the hepatobiliary system which include degenerative, inflammatory, neoplastic lesions and liver transplantaion
- Genital system (male & female) as regard infertility, menstrual disturbances, neoplasias and gestational disorders
- Urinary tract system diseases including inflammations, stones, renal filure congenital anomalies and neoplasia

B- Intellectual skills

B1. Interpret gross and microscopic data of surgical specimens.

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

B3. Differentiate 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.

C- Professional/practical skills

C1. Demonstrate the pathologic features of different diseases based on gross and microscopic pictures aiming at reaching a correct diagnosis.

C2. Interpret tissue smears, cell block and tissue biopsy with routine stain and immunohistochemical staining.

C3. Apply pathologic grading and staging of various malignant tumors according to the recent WHO recommendations and the lifelong pathologic updates.

C4. Construct a proper pathology report for a full range of histopathology and cytopathology specimens.

C5. Practice diagnostic pathology services in pathology labs in all Mansoura university medical centers.

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

D3: Present attitudes that will maximize their educational experiences via continuous search in data base and life long learning.

D4: Work in inter-professional teams

D5: Understand the legal issues relating to surgical pathology and cytopathology reporting

D6: Manage cases at proper time.

(3) Course content.

Module 1: lectures (6credit hours , 90 teaching hours)

Subjects	Total Teaching hours
1. Cardiovascular System (Heart and Blood Vessels)	10
2. The Hematopoietic and Lymphoid Systems	30
3. The Lung	15
4. The Kidney, Lower Urinary, and Male Genital System	15
5. The Oral Cavity and the Gastrointestinal Tract	20
Total	90

Module 1: practical 5 credit hours; 150 teaching hours

Subject	Teaching hours
Slides for diseases of cardiovascular System	15
Slides for diseases of the Hematopoietic and Lymphoid Systems	50
Slides for diseases of the Lung	30
Slides for diseases of the Kidney, Lower Urinary, and Male Genital System	30
Slides for diseases of the Oral Cavity and the Gastrointestinal Tract	25
	150

Module 2: lectures 7 credit hours ;105 teaching hours

Subjects	Total teaching hours
1. The Liver, Gallbladder, Biliary Tract, and Pancreas	20
2. The Female Genital System and Breast	25
3. The Endocrine System	10
4. The Musculoskeletal System and Soft Tissue	25
5. The Skin	10
6. The Nervous System, Eye, and Ears	15
Total	105

Module 2: practical 4 credit hours; 120 teaching hours

Subject	Teaching hours
Slides for diseases of the liver	15
Slides for diseases of female genital and breast	40
Slides for diseases of endocrine	20
Slides for diseases of soft tissue	30
Slides for diseases of nervous system	15
	120

COURSE CONTENT SPECIFICATIONS

FOR EACH BODY SYSTEM MENTIONED IN THE TABLE

- Inflammatory diseases
- Degenerative diseases
- Vascular diseases
- Neoplastic diseases

Each disease is studied regarding its

- Aetiology,
- Pathogenesis,
- Clinical features,
- Pathological features(gross and microscopic)
- Immunohistochemical and molecular features
- Prognosis

(4) Teaching methods:

- 1: Lectures & Seminars
- 2: Conferences
- 3: Training on examination of pathologic slides
- 4: Essay preparation & discussion.
- 5: Teaching of the students on pathology lab. In Mansoura university medical centers.

(5) Assessment methods:

- Written exam : 240 marks
- OSPE exam: 150 marks
- Structured oral exam: 150 marks
- MCQ exam: 60 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

(6) 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

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/>

(7) 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 Nagib**

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