COURSE SPECIFICATION

(Special pathology)

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:	Special pathology
(8) Course code:	PATH 605 SP
(9) Total hours:	10 credit hours lectures 8 credits practical
(10) Total teaching hours:	Lectures 150 hours Practicle 240 hours

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1-Indepth study for common and important diseases of body systems concerning etiology, pathogensis,morphology, natural history and differential diagnosis.

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

a-Diagnosis of most surgical specimens

b-Provide a differential diagnosis, and the use of immunohistochemistry

C-Writing pathology report for a full range of 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 pathological features of vascular diseases including atherosclerosis, hypertension, aneu and vascuilitis

A2: Understand pathology of vascular interventions and cardiac transplantation

A3: Recognize pathology of heart failure, ischemic, hypertensive, and valvular heart diseases

A4: Discuss rheumatic fever, infective endocarditis,cardiomyopathies and pericardial diseases

A5: Enlist tumors of the heart

A6: Identify in details different hemopoietic disorders such as leukemias, lymphomas, Myeloproliferative disorders, myelodysplastic syndromes, histiocytic proliferations, plasma cell dysc llowing and mastocytosis

A7: Describe reactive lymphadenopthies

A8: Discuss diseases of spleen , and thymic tumors

A9: Recognize pathological features of non neoplastic lung lesions such as obstructive pulmonary diseases, interstitial lung diseases and pulmonary infections

A10: Classify lung tumors

A11: Identify non neoplastic lesions of nasal cavity , nasopharynx, and larynx

A12: Enlist the pathological features of tumors of nasal cavity, nasophrynx, and larynx

A13: Describe pathological features of glomerular diseases, tubulointerstitial diseases, and cystic kid lesions

A14: Classify tumors of the kidney both in pediatrics and adults

A15: Recognize nonneoplastic and neoplastic lesions of urinary bladder

A16: Identify in details non neoplastic lesions of esophagus, stomach, intestine, and appendix

A17: Classify tumors of the GIT organs

A18: Discuss updates in liver diseases whether nonneoplastic or neoplastic

A19: Recognize diseases of gall bladder and salivary glands

A20: Identify non neoplastic lesions of the female genital tract organs

A21: Recognize advances in female genital tract tumors

A22: Understand detailed pathological features of breast tumors and their differentiation from other breast diseases

A23: Recognize recent classification and full pathological aspects of soft tissue and bone tumors

A24: Discuss dermatoses and skin tumors

A25: Understand pathology of infertility and tumors of male genital system

A26: Describe nonneoplastic lesions of bone and joints

A27: Recognize diseases of thyroid , pituitary and other endocrinal glands

A28: Understand degenerative CNS diseases, demyelinating diseases and cerebrovascular Disorders

A29: Recognize updates in classification of CNS tumors

A30: Identify diseases of skeletal muscle and peripheral nerves

B- Intellectual skills

B1: Integrate gross and microscopic data for approaching the diagnosis

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

B6: Use and interpret the immunohistochemical panel that may help in the diagnosis

C- Professional/practical skills

C1: Diagnosis of most surgical specimens

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: Apply differential diagnosis and problem solving skills .

C5. Issue accurate complete and clear reports supported by recent knowledge or research achievements

C6: Diagnosis and differential diagnosis of routine (H.&E.) stained and IHC stained Sections and writing pathology report for diseases of different body systems including

- Diagnosis of CVS system diseases
- Diagnosis of lung diseases
- Diagnosis of genitourinary diseases
- Diagnosis of oral cavity and GIT diseases
- Diagnosis hemopoietic and lymphoid system diseases
- Diagnosis of liver diseases
- Diagnosis of female genital tract diseases
- Diagnosis of soft tissue diseases
- Diagnosis of skin diseases
- Diagnosis of CNS diseases
- Diagnosis of endocrine system diseases

D- Communication & Transferable skills

D1: Develop presentation skills and how to respond to feedback positively

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

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

D4: Work in inter-professional teams.

D5: Participate in identifying system errors and implementing potential systems solutions.

D6: Adopt the legal issues relating to surgical pathology and cytopathology reporting

D7: Manage cases at proper time.

D8: Following cost-benefit when using additional tests

(3)Course schedule

2 modules each is 5 credit hours lectures and 4 credit hours practicle

Module (1): 5 credit hours lectures =75 teaching hours

Subjects	**Lectures**
1. **Cardiovascular System (Heart and Blood Vessels)**	**7.5**
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**	**7.5**
Total	75 teaching hours

Module 1: 4 credit hours Practical = 120 hours

Subjects	
Diagnosis of CVS system diseases	**15**
Diagnosis of lung diseases	**15**
Diagnosis of genitourinary diseases	**30**
Diagnosis of oral cavity and GIT diseases	**30**
Diagnosis hemopoietic and lymphoid system diseases	**30**
Total	120 teaching hours

Module 2 : 5 credit hours lectures= 75 hours

Subjects	Lectures
1. The Liver, **Gallbladder, Biliary Tract, and Pancreas**	**15**
2. **The Female Genital System and Breast**	**15**
3. **The Endocrine System**	**7.5**
4. **The Musculoskeletal System and Soft Tissue**	**15**
5. **The Skin**	**7.5**
6. **The Nervous System, Eye, and Ears**	**15**
Total	75 hours

Module 2: 4 credit hours Practical = 120 hours

Subjects	Lectures
Diagnosis of liver diseases	**15**
Diagnosis of female genital tract diseases	**30**
Diagnosis of soft tissue diseases	**15**
Diagnosis of skin diseases	**15**
Diagnosis of CNS diseases	**30**
Diagnosis of endocrine system diseases	**15**
Total	120 teaching hours

COURSE CONTENT SPECIFICATIONS

10- FOR EACH BODY SYSTEM MENTIOND 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

(5)Teaching methods:

1: Lectures & Seminars

2: Conferences

3: Training on examination of pathologic slides

5: Training in pathology lab. In Mansoura university medical centers.

(6)Assessment methods:

- **Written exam:** 80 marks
- **OSPE exam:** 50 marks
- **Structured Oral exam:** 50 marks
- **MCQ exams:** 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

(7)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/

(8)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**