COURSE SPECIFICATION

(Elective course: Hematopathology)

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:	Elective course
(8) Course code:	PATH 605 HEP
(9) Total hours:	5 credit hours
(10) Total teaching hours:	75 hours

(B) Professional information

Course Aims:

1--To aquire detailed informations about non neoplastic lymph node, bone marrow, spleen and thymus diseases, their pathogenesis, morphologic features , prognosis, fate and complications

2-To provide molecular background for non neoplastic lesions

3-To clarify molecular pathogenesis for hemopoietic 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 provide the skill for interpretation of tissue biopsy from these related organs

8- To support applying and integrating data for problem solving in tissue biopsy interpretation

9- To help handling and processing of related specimens in different pathologic conditions

10- To guide applying grading and staging of tumors

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 hemopoietic and reticuloendothelial 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 the hemopoietic and reticuloendothelial systems

A3: Classify tumors of the hemopoietic and reticuloendothelial 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 the hemopoietic and reticuloendothelial 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

Course content

A:Non neoplastic diseases(2 credit hours; 30 teaching hours)

1-Different aspects of evaluation of lymph node ,spleen,and bone marrow specimens including needle biopsies and aspirates

2-Primary immunodeficiencies

3-Patterns of LN hyperplasia

4-Inflammatory/ hyperplastic diseases

5-LN inclusions

6-Splenic cysts

7-Hypersplenism

8-Alterations in bone marrow cellularity

9-Bone marrow necrosis

10-Lipid storage diseases affecting bone marrow

11- Bone marrow transplantation

12-Non neoplastic diseases of thymus

13-Other non neoplastic lesions

B: neoplastic diseases (3 credit hours; 45 teaching hours)

1-Lymphomas

2-Leukemias and related disorders

3-Histiocytic tumors and related disorders

4-Tumors of cells of accessory immune system
5-Plasma cell dyscrasias
6-Mastocytosis
7- Chronic myeloproliferative disorders
8-Myelodysplastic syndromes
9-Vascular tumors
10-Thymoma
11-Other thymic tumors
12-Other primary tumors
13-Metastatic tumors
14- Tumor like conditions

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 Nagib**

Head of the department: Prof. Dr. Khaled Zalata