

Pathology Course Specification
3rd year of M.B.B.Ch. Program
2017-2018.

University: Aswan

Faculty: Medicine

Department: Pathology

1- basic course information

- **Course title:** Pathology
- **Code:** AMed011
- Academic year / Level: **3rd year** course of **M.B.B.ch Program**
- Department offering the course: **Pathology** **Date of specification approval**
- **Lecture:** 120 hours
- **Tutorial/ Practical:** 120 hours
- **Total :** 240 hours

2- Overall aims

1. To provide a core knowledge about disease processes affecting organ system, with an emphasis on understanding mechanisms of disease
2. To enable the students to understand basics pathology, general and special pathology.
3. To provide the student with an appropriate background about etiology, pathogenesis and pathologic manifestation of diseases.
4. To enable the student to correlate the histopathology with the clinical basis of diseases (including explanation of signs and symptoms and understand the role of histopathological investigation in diagnosis and management).
5. To provide the student with the knowledge about the pathology and complications of different diseases.

3- Intended Learning Outcome (ILOs)

A. Knowledge and derstanding:

By the end of the course, students should be able to:

A1- Define the main disease categories that may affect the body (general pathology) as well as the basic mechanisms underlying these disorders (etiology, pathogenesis and natural history).

A2- Describe the morphologic (gross & microscopic) changes occurring as a result of such disease processes in various organs.

A3- State the prognosis, basic treatment principles and prevention particularly for diseases of national importance.

A4- Define medical terms.

A5- Describe mechanisms of disease (pathogenesis) A6- Explain how disease progress (outcome)

B. Intellectual skills

By the end of the course, students should be able to:

B1. Analyze in a professional manner a pathology report.

B2- Solve pathological problems

B3- Interpret data

C. Professional and practical skills:

By the end of the course, students should be able to:

C1- Examine the macroscopic and microscopic criteria of the altered structure (Pathology) of the body and its major organs that are seen in various diseases and conditions.

C2- Examine macroscopically and microscopically various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) and mechanisms of diseases and the way through which they operate in the body (pathogenesis).

C3- Elicit a diagnosis based on gross or microscopic morphology.

C4- Make a report commenting on a pathological specimen.

C5- Carry out the most appropriate cost effective pathologic diagnostic procedures

D. General and transferable skills:

By the end of the course, students should be able to:

D1- Adopt the principles of lifelong learning with a strong commitment to it.

D2-Communicate with the sources of biomedical information to remain current with the advances in knowledge and practice.

D4- Integrate data analysis and communication skills D5- Communicate with system and other students.

D6- Be reliable and responsible in fulfilling obligations.

D7- Follow various computer based instruction tools, E-learning of Pathology and variety of computer-based self-assessment tools.

D8- Accept the limitation in Knowledge and always strive for excellence.

D9- Organize a presentation in seminars or small group discussion, with students and staff members with efficient time management, evaluation of their and others' work

D10. Present information clearly and display themselves freely and adequately modifying their descriptive capabilities and enhancing their communication skills.

4- Course Contents

Topics	No. of hours	Lecture	Tutorial / Practical
1. Introduction	2	1	1
2. Inflammation	16	8	8
3. Repair	6	2	4
4. cell injury	10	6	4
5. Circulatory Disturbances	9	5	4
6. Acute bacterial infection & infectious diseases	7	3	4
7. Immunity	5	5	-
8. Tuberculosis& sarcoidosis and Leprosy	11	7	4
9. Viral & Fungal infection	4	2	2
10.Parasitic diseases	10	6	4
11.Disturbances of growth	6	2	4
12.Tumors (neoplasia)	12	6	6
13.Diseases of the heart	10	6	4
14.Diseases of the blood vessels	8	4	4
15.Upper respiratory diseases	6	2	4
16.Lower Respiratory diseases	6	4	2
17.GIT diseases	17	9	8
18.Diseases of gall bladder, peritoneum and pancreas	2	2	-
19.Liver diseases	12	6	6
20.Diseases of the kidney	9	5	4
21.Diseases of the lower Urinary tract	10	6	4
22.Male genital system diseases	6	2	4
23.Female genital system diseases	13	5	8
24.Breast diseases	10	2	8
25.Bone diseases	8	4	4
26.Endocrine system diseases	12	6	6
27.Lymphatic diseases	7	3	4
28.CNS diseases	6	4	2
Total	240	120	120

5- Teaching and Learning Methods

- 1- Lectures for knowledge and intellectual skill outcomes using white board and marker overhead projectors & Data show and camera
- 2- Practical training including:
 - Classes for demonstrations of Jars for sample collection (museum)
 - laboratory for demonstrations of Pathological slides(laboratory)
 - Case study classes with active participation of students for gain intellectual, practical and communication skills
- 3- Training on communication skills through small group discussion about 10-15 minutes within the museum sessions
- 4- Students asked to do small research presentations or poster and discuss it with their classmates and with the tutor. This helps them gain the general skills outcomes (D1- D10).

Facilities used for Teaching and Learning

- 1- Lecture halls
- 2- Rooms for small groups teaching
- 3- Audio visual aids (data shows, overhead projectors with plastic roll)
- 4- Computers and internet facilities
- 5- Faculty library
- 6- Central library of the Assiut University
- 7- Microscopes

6- Teaching and learning Methods for students with learning difficulties:

- 1- Lectures.
- 2- Classes for demonstrations of jars, slides and for case study learning.
3. Special classes outside the teaching schedule

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7- Student Assessment:

A- Methods

- 1- Written exams to assess knowledge and intellectual skills (a1-a 6, b1-b3)
 - True and false questions, Matching and complete blanks and Multiple-choice questions
 - Case studies
 - Essay questions
- 2- Oral exam assess knowledge, intellectual and general skills (a1-a 6, b1-b3, d8-d9)
- 3- Practical exam to assess intellectual and practical skills (b1-b3, c1-c5)
- 4- Formative assessment by electronic quizzes (a1-a6, b1-b3)

B- Assessment Schedule

Assessment1:	Periodical exam (1) in the 6 th week
Assessment2	Mid-term practical exam in the 10 th week
Assessment3	Mid-term written exam in the 11 th Week
Assessment4	Periodical exam (2) in the 16 th week
Assessment5	Final practical exam in the 26 th Week
Assessment6	Final written exam in the 30 th Week
Assessment7	Final oral exam in the 30 th Week
Assessment8	Practical book (student portfolio)

C- Weighing of assessments:

Exam	Marks	% of Total
Term examination	45	15%
Final term written examination	150	50%
Final Oral examination	30	10%
Final Practical/laboratory work	60	20%
Semester Work (quizzes, activities & attendance mark)	15	10%
Total	300	100%

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8- List of References

6.1-Course Notes : Notes on pathology by staff members of Pathology Department

6.2- Essential Books (Text Books) Robbin's (pathologic basis of pathology) 9th edition (2015)

6.3-Recommended Books

- Muir's (Text book in Pathology) (2010)
- Pathology illustrated (2009)
- Concise pathology (2010)
- Book of Dr. Gamal Nada (2008)

6.4- Periodicals, Web Sites, etc Journal of Pathology American journal of Pathology:www.Pathmax.com,www.webpathology.com

**Course Coordinators: Asst. Prof. dr. Afaf El Nashar, Prof. dr Abeer El Refaea
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