



وحدة ضمان الجودة

الخطة الاستراتيجية ٢٠١٧/٢٠١٨



جامعة أسوان - كلية الطب

# HISTOLOGY 1

## COURSE SPECIFICATION

2017/2018

**University:** Aswan

**Faculty:** Medicine

**Department:** Department of Histology

### 1- basic course information

- Course title: Histology 1
- Code: Amed03
- Academic year / Level: first year
- Programme(s) on which the course is given: M.B.B.Ch. program
- Department offering the course: Department of Histology
- Lecture: 60 hours
- Tutorial/practical: 60
- Total : 120 hours

### 2- Overall aims

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

- To provide the student with the knowledge about the methods of studying cells and tissues
- To provide the student with an appropriate background covering the different types of tissues
- To provide the student with an appropriate background about the relationship between the structure of each cell components with their functions.
- To enable the students to recognize the reflection of the method used on the picture observed and become familiar with the various methods and their applications.
- To enable the students to recognize the scientific basis of tissue preparation and practice them. Examples: making films, spreads and counting.
- To provide the student with an appropriate background about the structure and function of the body and its major organ systems and of the molecular and cellular mechanisms.

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- To enable the development and application of appropriate ethical principles, and communication skills.

### **3- Intended learning outcomes (ILOs)**

#### **A- Knowledge and understanding**

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

- A1- Mention the basic steps in preparing specimens for light and electron microscopy.  
A 2- Describe the histological characteristics of normal cells  
A3- Describe the structure and functions of the cytoplasm.  
A4- Describe the subunits of each nuclear component and their role in its function  
A5- Describe the process of cell division and identify the activities that control the transition from each phase of the cell cycle to the other.  
A6- Mention the difference between normal and abnormal karyotyping  
A7- Describe the structural characteristics of the four basic tissue types  
A8- Mention the basic histological structure of some systems (Vascular, Lymphatics, etc.)

#### **B- Intellectual skills**

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

- B1- Correlate between histological structure & function of any cell or tissue  
B2- Select appropriate methods to reveal specific microscopic features of cells and tissues.  
B3- Recognize the most important diagnostic features that characterize each tissue  
B4- Distinguish between normal and abnormal karyotyping  
B5- Interpret a complete blood picture report  
B6- Compare between different blood elements and their development.

#### **C- Professional skills**

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

- C1- Examine the instruments and techniques used to prepare and study histological specimens.  
C2 – Examine the different parts of the microscope and using the microscope efficiently.  
C3- Examine the histological slides under the microscope efficiently.  
C4- Use the microscope to differentiate between various types of stains & micro techniques  
C5- – Examine different cell organelles  
C6- Use the microscope to differentiate between different blood cells in blood films

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- C7- Use the microscope to differentiate between different types of epithelium, connective tissue cells, connective tissue proper & bone cells
- C8- Use the microscope to differentiate between different tissues and organs in histological slide
- C9- Perform a differential leucocytic count using the blood film.
- C10- Draw the structures they have seen in electron photomicrographs and under light microscope during practical classes. Draw the histological structure of different tissues seen by light microscope during practical classes.

### **D- General skills**

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

- D1- Establish the importance of life-long learning and show a strong commitment to it.
- D2- Verify the use of Use the sources of biomedical information to remain current with advances in knowledge and practice
- D3- Demonstrate freely, keeping an ethical behavior and improve his capability to describe and discuss
- D4- Communicate Work efficiently with his colleagues in the resources of practical laboratories
- D5- Share in the work efficiently with the instruments and equipments of the department in a responsible manner keeping them intact and clean.

### **4-Course Contents**

Topic	No. of Hours	Lecture	Tutorial / Practical
Method of studying cells and tissues	12	4	8
Cell biology (cytology & cytogenetics)	24	16	8
Hematology	18	8	10
Epithelial Tissues	10	4	6
Connective tissues	10	4	6
Cartilage and Bone	12	6	6

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<b>Muscular tissues</b>	<b>8</b>	<b>4</b>	<b>4</b>
<b>Nervous tissues</b>	<b>10</b>	<b>6</b>	<b>4</b>
<b>The blood circulatory system</b>	<b>8</b>	<b>4</b>	<b>4</b>
<b>Lymphatic system</b>	<b>8</b>	<b>4</b>	<b>4</b>
<b>Total</b>	<b>120</b>	<b>60</b>	<b>60</b>

### **5- Teaching and learning Methods**

- 1- Lectures for knowledge and intellectual skill outcomes.
- 2- Practical sessions to gain practical skills and using Practical book for drawing
- 3- Monitoring the colored slides through the data show
- 4- E learning (All practical part (slides) and questions of different topics available online for student's assessments)

### **Facilities required for teaching and learning**

- 1- White board
- 2- Overhead projectors
- 3- Microscopes
- 4- Data show for power point presentations

### **6- Teaching and learning methods for students with learning difficulties:**

- 1- Lectures
- 2- Discussion sessions
- 3- Practical sessions to gain practical skills and using Practical book for drawing
- 4- Monitoring the colored slides through the data show for reassurance
- 5- Special low price classes outside the teaching schedule

### **7- Student assessment:**

#### **A- Methods**

- 1- Written exams (short essays and MCQs) to assess knowledge and intellectual skills (a2-a9, b1-6)
- 2- Oral exam to assess knowledge, general and intellectual skills (a1-a9, b1-b6, D1- D3)
- 3- Practical exam (Identification of histological slides) to assess intellectual, practical and general skills (c1-c11, D3- D4 - D5)

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4- Course assignment and practical book to assess practical and general skills (c1-c11, D1-D5)

5- Attendance Criteria: The minimal acceptable attendance is 75%

### **B-Assessment schedule**

Assessment 1: Mid-term MCQ assessment

Assessment 2: Final practical examination by the end of the 20th Week

Assessment 3: Final written examination by the end of the 24th Week

Assessment 4: Final oral examination by the end of the 24th Week

Assessment 5: Course assignment and practical book

### **C- Weighting of assessments**

Assessment (1): Mid-term MCQ assessment	13.4%	(20marks)
Assessment (2): Final Practical Examination (Drawing & Slides exam)	16.6%	(25)
Assessment (3): Final written Examination	50%	(75)
Assessment (4): Final Oral Examination	13.4%	(20)
Assessment (5): Course assignment and practical book	6.6%	(10)
Total	100 %	(150)

### **8- List of references**

1-Course Notes : Department undergraduate book of histology and Colored Atlas of Histology by staff members of histology Department

2- Essential Books: (Text Books): Basic Histology, Junqueira, L.C

3-Recommended Books: **Bloom and Fawcett.**

4- Periodicals and Web Sites of histology

**Course coordinators: Prof. Amal Taha Abou- ElGhait, Prof. Ramdan Abdel Hafez and Prof. Gamal Kamel**

**Head of Department :Prof. Dr. Amal Taha Abou- ElGhait**

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