



Beni-Suef University
Faculty of Dentistry
Quality Assurance Unit



Course Specification

University: **Beni-Suef** Faculty: **Dentistry**
Course Title: **General Histology** Course code: **MGH2**
Program on which the course is given: **Bachelor's degree in Dentistry, Graduate program**
Department offering the course: **Histology Department, Faculty of Medicine**
Academic year: **first year**
Date of specification approval: **September 2023**

A- Basic Information

Academic Year:	2023-2024
Course Code:	MGH2
Course Theoretical (contact hours):	1hr*30w
Practical (contact hours)	2hr *30w
Total Hours: -	3h. 90 hr (Theoretical: 30 Practical: 60)

B- Professional Information

Overall aims of course

By the end of the course, the student should be able to describe the different types of human body cells and their functions. Also, the student should be able to identify the structure of normal human tissues and organs and to correlate their structure to their function

.2- Intended learning outcomes of course (ILOs)

a. Knowledge and understanding:

a1- Define histology, types of microscopes and the principles of staining with hematoxylin and eosin

- a2- Describe light microscopic and electron microscopic features and the function of cell organelles, cell inclusions, and the nucleus
- a3- Discuss the general characteristics of epithelium, its types, sites and the structure of each type.
- a4. Describe the general characteristics of connective tissue (CT), types of CT cells (LM, EM and function), the structure and types of CT fibers, and types and sites of CT proper.
- a5. Describe the structure and function of red blood corpuscles, white blood cells and platelets (LM, normal and abnormal count, and function).
- a6. Discuss the general characteristics of cartilage, types of cartilage cells (LM, EM and function), and the structure and sites of different types of cartilage.
- a7. Describe the general characteristics of bone, types of bone cells (LM, EM and function), the structure and sites of different types of bone, and types of ossification.
- a8. Describe the different types of muscle (skeletal, cardiac and smooth muscle)
- a9. Describe the neuron (LM, EM and types), types of nerve fibers & types of ganglia.
- a10. Describe the histological structure and function of Gastrointestinal tract [oral cavity, salivary gland, liver, pancreas].
- a.11 Describe the histological structure and function of Endocrine system [suprarenal gland, thyroid gland, pituitary gland]
- a.12 Describe the histological structure and function of Respiratory system [trachea, lung].
- a13. Describe the structure and function of each type of lymphatic organs (lymph node, spleen and tonsil).
- a.14 Describe the structure and function of skin

b. Intellectual skills:

- b1. Analyze the ultrastructural details of the cell & correlate between the predominance of a certain cell organelle & the function of its cell.
- b2. Correlate between the structure & function of every organ according to its type of cells.
- b3. Compare between the different types of tissues according to their structure, function and distribution in the human body.

c. Professional and practical skills:

- c1. Differentiate between different tissues and organs in histological slides using light microscope.
- c2. Apply different types of stains specific for different types of cells and tissues.
- c3. Identify the ultrastructural details of cells through electron microscopic pictures.

d. General and transferable skills:

- d1- Apply how to work effectively in a team.
- d2- Express himself freely and adequately by improving his descriptive capabilities & enhancing his communication skills
- d3- Maintain professional image in manner, dress speech and interpersonal relationships that is consistent with the medical profession's accepted contemporary standards in the community.

3-Contents:

Topic	Lecturer	Lectures (1hrs)	Practical (2hrs)	weighting	ILOs covered by this topic	Teaching method	Assessment methods
Introduction to Histology [microscopy – micro-technique]	Dr. Fatma Mohamed	1	1	3.45	A1	-Lectures -Discussions during the lecture -Clinical and histological pictures	-Periodic evaluation. -mid-year exam. -Practical exam. - Oral exam.
The cell structure and function [cell membrane-mitochondria-SER- RER-Secretory vesicles]	Dr. Mai Amin	2	2	6.9	A2, b1-b3,c1-3, d1-3	-Practical sessions using light microscope and cases on smartboard - Assignments	- Final written exam. -Attendance assessments (sketch book, assignments)
The cell and structure function [lysosomes-ribosomes-cytoskeleton-nucleus]	Dr. Ola Esmail	2	2	6.9	A2, b1-b3,c1-3, d1-3		
Epithelium [general]	Dr. Eman Mohamed	2	2	6.9	A3, b1-b3,c1-3, d1-3		

characters- surface epithelium- glandular epithelium. – myoepithelium. – neuroepitheliu m]							
Connective tissue [general characters- free and fixed CT cells - fibers and matrix & types of C.T]	Dr. Amira Shaban	2	2	6.9	A4, b1-b3,c1- 3, d1-3		
Blood (Erythrocytes)	Dr. Asmaa Mohamed	1	1	3.45	A5, b1-b3,c1- 3, d1-3		
Blood (leukocytes, blood platelets)	Dr. Asmaa Mohamed	1	1	3.45	A5, b1-b3,c1- 3, d1-3		
Cartilage [General characters of cartilage –	Dr. Asmaa Mohamed	2	2	6.9	A6, b1-b3,c1- 3, d1-3		

structure of cartilage - types and sites of cartilage]							
Bone [General characters of bone – structure of bone - types and sites of bone – bone ossification]	Dr. Asmaa Mohamed	2	2	6.9	A7, b1-b3,c1-3, d1-3		
Muscular tissue [general characters, structural details of skeletal, cardiac, and smooth muscles]	Dr. Asmaa Mohamed	2	2	6.9	A8, b1-b3,c1-3, d1-3		
Nervous tissue [structural details of the neuron, types of neurons,	Dr. Asmaa Mohamed	2	2	6.9	A9, b1-b3,c1-3, d1-3		

myelination, structure and function of neuroglial cells]							
Gastrointestinal tract [oral cavity, salivary gland, liver, pancreas]	Dr. Asmaa Mohamed	2	2	6.9	A10, b1-b3,c1-3, d1-3		
Endocrine system [suprarenal gland, thyroid gland, pituitary gland]	Dr. Asmaa Mohamed	2	2	6.9	A11, b1-b3,c1-3, d1-3		
Respiratory system [trachea, lung]	Dr. Asmaa Mohamed	2	2	6.9	a.12, b1-b3,c1-3, d1-3		
Lymphatic organs [structure & function of thymus, lymph nodes, spleen]	Dr. Asmaa Mohamed	2	2	6.9	a.13, b1-b3,c1-3, d1-3		

& tonsils]							
Skin	Dr. Asmaa Mohamed	2	2	6.9	a.14, b1- b3,c1-3, d1-3		

4- Teaching and learning methods

4.a Small group discussion / Brain storming

4.b Demonstrations

4.c Interactive lecture

4.d Research project.

5- Student assessment methods

5.a Written and short answer question

5.b Written and long essay.

5.c Multiple choice questions (MCQ)

5.d True or false question with justifying answer.

5.e Practical / OSPE

5.g Oral exam

5.h Final exam

Assessment schedule

Mid-year exam	January 2024
Assignments	During the 1 st and the 2 nd semesters
Practical exam	May 2024
Final exam	June 2024

Weighting of assessments

Final Exam			Attendance / cutaneous assessments	Total
Written	Practical	Oral Exam	20	100
40	20	20		

6- List of reference;

- Course notes

Facilities required for teaching and learning

- Use the light microscope during practical sections

Course coordinator: **Prof. Dr. Samraa Hassan**

Head of Department: **Prof. Dr. Samraa Hassan**

Date: September 2023