

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	General Histology
Course number	MDCN1223
Faculty	
Department	
Course type	College Needs
Course level	1
Credit hours (theoretical)	2
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1	- Understand the basic principles of histology, including cell and tissue structure and function, and the interactions between cells and tissues that make up organs and systems of the body.
2	- Identify different types of tissues, including epithelial, connective, nervous, and muscular tissues, and understand their roles in the body.
3	- Learn different tissue staining techniques used in histology to visualize cells and tissues and understand their applications.
4	- Develop an understanding of the various methods used in the preparation, preservation, and examination of histological specimens.
5	- Understand the cellular and molecular mechanisms underlying tissue growth, development, repair, and regeneration.
6	- Develop critical thinking and problem-solving skills by analyzing histological data and interpreting findings.

Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> * Understand the basic concepts and terminology of histology, including the organization of cells, tissues, and organs. * Understand the basic principles of histological staining and microscopy, including the use of light microscopy, electron microscopy, and immunofluorescence. * Understand the role of histology in research and development of new treatments and techniques.
Intellectual Skills	<ul style="list-style-type: none"> * Identify and describe the different types of tissues found in the body, including epithelial, connective, muscle, and nervous tissue. * Develop critical thinking skills for the interpretation and analysis of histological information, including the use of histological images and diagrams.
General Skill	<ul style="list-style-type: none"> * Describe the basic structure and function of cells, including the different organelles and their functions.

Course Contents

- 1 - Histology and its methods to study
- 2 - The cell (nucleus and cytoplasm)
- 3 - Epithelial tissue
- 4 - Connective tissue
- 5 - Adipose tissue
- 6 - Bone
- 7 - Cartilage
- 8 - Muscle tissue
- 9 - Nerve tissue and nervous system

Teaching and Learning Methods

- 1 - Lectures
- 2 - Practical training for examination of tissues under microscope in labs

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Histology lab		20
Mid-term exam		30
Final exam		40
Assignment		10

Books and References

Essential books Junqueira basic histology

Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
the cell nucleus and cytoplasm	week #1. 2. 3	1,2	1		1
epithelial tissue	week # 4.5	1 , 2	1		1
connective tissue	week #6	1,2	1		1
adipose tissue	week #7	1,2	1		1
muscle tissue	week #8	1,2	1		1
bone	week #9	1,2	1		1
cartilage	week #10	1,2	1		1
nerve histology	week #11,12	1,2	1,2		1
Introduction to histology	week #1	1	1		1