

Course Specification

Histology I

1. General information

Course Title	Histology I
Code No.	HI714
Department	Histology
Teaching Hours	100hrs
Language	English
Academic Year	First year
Course Coordinator	Dr. Fouzia Belkasm
Date and Signature	October 2020

1.1. Number of hours per week:

Lectures: 3hrs.

Laboratory: 2hrs.

Training: 1hr.

Total:6hrs.

2. Objectives of Course:

- To obtain a fundamental knowledge regarding the normal histological structure of cell and different tissues of the human body.
- To provide students with a significant insights about ultrastructure of the cell and human genetic (cell cycle, cell divisions and chromosomes with their structural and numerical anomalies).
- Providing students with knowledge and skills that enable them to perform some microtechnical methods as tissue preparation for microscopic examination

3. Intending Learning Outcomes (ILOs):

a. Knowledge and Understanding:

On successful completion of the course, student will be able to:

a.1	Know the basic steps in preparing specimens for light and electron microscopy.
a.2	Explain the process of cell division and identify the activities that control the transition from each phase of the cell cycle to the other.
a.3	Understand the basis of cytogenetics and chromosomal aberrations.
a.4	Describe and compare between different blood elements and their development
a.5	Define and discuss the basic histological structure of epithelium, connective tissue, cartilage , bone, muscles, lymphatic, skin and some systems like CVS& CNS systems.

b. Intellectual Skills:

On successful completion of the course, student will be able to:

b.1	Select appropriate methods to reveal specific microscopic features of cells and tissues.
b.2	Relate the composition of each tissue type to its specific functions.
b.3	Differentiate between normal and abnormal karyotyping.

c. Practical and Professional Skills:

On successful completion of the course, student will be able to:

c.1	How to use the microscope efficiently.
c.2	Name the techniques which used to prepare and study histological specimens of different tissues .
c.3	How to handle the histological glass slides and examine them using the maximum microscopic facilities.
c.4	Recognize and differentiate between types of cells and tissues in histological slides.
c.5	Draw and label diagrams of different levels in the spinal cord, brain stem and other diagrams studied during the course.

d. General and Transferable Skills:

On successful completion of the course, student will be able to:

d.1	Respect the role of staff and co-staff members regardless of degree or occupations.
d.2	Deal with the instruments and equipment in a responsible manner keeping them intact and clean.
d.3	Obtain good communicate skills: orally and by writing
d.4	Prepare a clear good presentations using IT skills.

4. Course Contents:

Academic Subject	Total hours (120)	Lectures	Laboratory	Tutorials
Introduction and microtechniques	8	4	2	2
Cytology and cytogenetics	18	12	2	4
Epithelium	14	8	4	2
Connective tissue	12	6	4	2
Cartilage	7	4	2	1
Bone	7	4	2	1
Blood	7	4	2	1
Muscle tissue	9	6	2	1
Nerve tissue	12	8	2	2
Cardiovascular system	7	4	2	1
Lymphatic (immune) system	12	6	4	2
Skin	7	4	2	1

5. Teaching and Learning Methods :

- Lectures
- Practical Sessions
- Tutorials

6. Evaluation Methods

Evaluation Method	Date	Marks 100	%	ILOs Assessed	
1	Annual Work		20	20%	
	▪ Mid-year Exam	January	15		Knowledge, understanding and intellectual skills
	▪ Quizzes & Assignments		5		Knowledge, understanding and intellectual skills
2	Final Exam	June	80	80%	
	▪ Written		50		Knowledge, understanding and intellectual skills
	▪ Practical		20		knowledge, understanding and intellectual skills Practical and professional skills General and transferable skills
	▪ Oral		10		Knowledge, understanding and intellectual skills Professional, general and transferable skills

7. Evaluation Schedule:

	Evaluation	Date
1	Mid-Year exam: Written exam includes different types of questions MCQs, True & False, short essay questions, matching and complete the blanks	January
2	Final written exam: consists of different types of questions MCQs, True & False, short essay questions, matching and complete the blanks	June
3	Practical exam: Microscopic Slide Examination	
4	Oral exam: mainly conducted by external visitors	
5	Quizzes & Assignments	Before mid-year exam

8. References:

Reference Title	Publisher	Edition	Author	Place
Medical Histology I	Sirte University	==	F. H. Diwan,	Library
Essential Books	McGraw-Hill Medical	11 th 2005	Junqueira et al	==
Recommended Books	Lippincott Williams & Wilkins	6 th 2010	Ross et al	==
	diFiore's Atlas of Histology	12 th 2012	Eroschenko PhD, Victor P	==
	Hodder Education Publishers	2 nd 2002	Bloom & Fawcett.	==

9. Required Facilities:

Required Facilities	Comments
Teaching rooms	Available
Teaching equipment	Some available
Software and hardware	Shortage
Practical facilities	Shortage

Course Coordinator: Dr. Fouzia Belkasm

Signature:

Programme Coordinator: Dr. Hussain Amaigil

Signature:

Head of Department: Dr. Fouzia Blkasm

Signature:

Date October 2020

Course ILOs Mapping Matrix – Histology I

Topic	Knowledge and Understanding a					Intellectual Skills b			Practical and Professional Skills c					General and Transferable Skills d			
	1	2	3	4	5	1	2	3	1	2	3	4	5	1	2	3	4
Introduction and microtechniques	x					x			x	x	x			x		x	
Cytology and cytogenetics		x	x			x	x	x				x	x	x	x	x	x
Epithelium					x		x					x	x	x	x	x	x
Connective tissue					x		x					x	x	x	x	x	x
Cartilage					x		x					x	x	x	x	x	x
Bone					x		x					x	x	x	x	x	x
Blood				x			x					x	x	x	x	x	x
Muscle tissue					x		x					x	x	x	x	x	x
Nerve tissue					x		x					x		x	x	x	x
Cardiovascular system					x		x					x		x	x	x	x
Lymphatic (immune) system					x		x					x	x	x	x	x	x
Skin					x		x					x	x	x	x	x	x