



Shatt Al-Arab University

College of Science

Pathological analysis science Dept.

MODULE DESCRIPTION

Human cytology

1- Educational Institution	Shatt al-arab university
2- Academic Dept.	Pathological analysis science Dept.
3- course name/Code	Path-122
4- Available forms Attendance	In-person
5- Semester/year	Semester
6- Number of class hours (total)	175
7- date this description was prepared	1/6/2024
8-Module Aim: <ol style="list-style-type: none">1. To develop learning skills and understanding of cell structure.2. To understand unite of life, structure of cells, cellular components.3. This course deals with the basic concept of cells and its functions.4. To understand the relations between the different cells types.5. To understand the biology of cancer6. Explaining the cellular signals.	

9- Module Learning Outcomes

A- Cognitive Objectives

- 1- Gain experience in identifying cell structure, function, cell types, and the relationships between them.
- 2- Identify and differentiate cell types under the microscope.
- 3- Learn how to use different types of stains to distinguish between different cell types.

B- Teaching and Learning Methods

1. Active learning by encouraging students to actively participate in the educational process.
2. Encouraging students to acquire knowledge.
3. Encouraging students to work in groups in the laboratory.
4. Using modern visual aids in lectures.
5. Enhancing interaction between professors and students to enhance understanding and learning.

Module Evaluation

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	15% (15)	2,6,9	LO #1, 2, 4, 5, 7,8 and 9
	Assignments	2	10% (10)	1,11	LO # 3,6 and 10
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	5% (5)	14	LO # 11,12,13,14 and 15
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

C- - Affective and Value-Based Goals

- 1- Developing positive emotions such as respect
- 2- Enhancing students' self-awareness
- 3- Developing the ability to think
- 4- Developing social, cultural, and personal values

D- General and transferable skills (other skills related to employability and personal development).

- 1- Gain experience in the process of differentiating and diagnosing cell types and distinguishing between normal and pathogenic cells.
- 2- Identify and differentiate between cell components.
- 3- Identify cell components.
- 4- Identify the functions of cell components.

10. بنية المقرر

Weeks	Hours	Outcome learning reequired	Name unit	Learing method	
1-Introduction for Cytology and cell theory	2 theory 2 practical	Required skill in learing and dignostic	Human cytology	In-person	
2- Basics of cell types and comparison between plant cell and animal cell and cell cycle					

3-Endoplasmic reticulum types					
4-Smooth e. r. and rough e. r.					
5-Golgi complex					
6-Lysosome & Vesicles types					
7-Mid term					
8-Cytoskeleton					
9-Centrioles					
10-Nucleus and Nucleolus					
11-Chromosomes types					
12-Nuclear envelope					
13-Relation between cells					
14-Cell signaling					
15-Final exam.					

11- infrastructure	
1- Required textbooks	Human cytology
2- Recommended Texts	Human cell biology Human cell Molecular biology of cell
3- Websites	1- Cell signaling technology 2- Google scholar

12- Curriculum Development Plan
Add a permissible 10% of the source update

جامعة شط العرب
كلية العلوم
قسم علوم التحليلات المرضية


العميد


رئيس القسم


استاذ المادة