Review the performance of the higher education institution.

((Review of the academic program))

This course description provides a summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, proving whether he has made the most of the available learning opportunities and must be linked to the program description.

1. Educational Institution: Al- Zahrawi University College
2. Course Name: Theoretical Histology
3. Course Code:
4. Semester / First Semester : 2024/2025
5. Description Preparation Date:2024-2025
6. Available Attendance Forms: Daily attendance
7. Number of Credit Hours (Total) / Number of Units 2 Hours/week (Total) 30
8. Course administrator's name (mention all, if more than one name)
Me: Dr. Hanan Mohsen Ali **Email: hananmuhsen71@gmail.com**
Course Objective .٩

Course Objectives	1. **Understand Cell & Tissue Structure-Function** Gain theoretical knowledge of human cells and tissues, identify their types and components, and understand their physiological roles. 2. **Classify & Describe Human Tissues** Classify main tissue types (epithelial, connective, muscular, nervous) and relate their structure to function and location. 3. **Correlate Histology with Organ Function & Pathology** Recognize organ-specific histological features, link them to physiological roles, and interpret tissue changes in disease. 4. **Apply Scientific Terminology & Lab Techniques** Use accurate histological terminology and understand basic slide preparation steps in medical labs.

	5. **Integrate with Medical Sciences & Develop Learning Skills** Connect histology with anatomy, physiology, and biochemistry, and foster self-learning using atlases and digital tools. 6. **Prepare for Advanced Study** Build a solid foundation for future specialization in histopathology and diagnostic practice.
10. Teaching and Learning Strategies	
Strategy	**A. Knowledge and Understanding:** **By the end of this course, the student will be able to:** • Understand the fundamental principles of histology, including the microscopic structure of the cell and the functions of its components. • **Distinguish the four main types of human tissues**—epithelial, connective, muscular, and nervous—and recognize their anatomical and functional characteristics. • **Interpret the relationship between tissue structure and physiological function,** and understand its impact on organ performance. • **Identify the histological characteristics** of various organs and relate them to the overall structure of the human body. • **Differentiate between normal and abnormal tissues** as a foundation for the future study of histopathology. **B.Subject-Specific Skills :** **Cognitive and Applied Knowledge Skills** By the end of the course, the student will be able to: • **Analyze histological images and accurately** identify tissue types and their components. • **Apply theoretical concepts to clinical or laboratory** examples to understand potential histological changes associated with certain diseases. • **Classify human tissues based on morphological and functional characteristics** using a clear scientific methodology. • **Integrate acquired knowledge in histology** with related sciences such as anatomy and physiology to develop a comprehensive understanding of structure and function. • **Compare tissue characteristics** across different developmental stages or in specific pathological conditions (at an introductory level).
	Teaching and Learning Methods: **To Promote Knowledge and Understanding** • **Interactive Theoretical Lectures:** Delivering core concepts using audiovisual aids (PowerPoint slides, videos, and digital atlases). • **Brainstorming and Group Discussions:** Stimulating critical thinking and encouraging students to participate

	in interpreting functions based on structural features. • **Analysis of Static and Dynamic Histological Images:** Utilizing display screens to examine tissue structures. • **Use of Histology Atlases (Printed or Digital):** Training students in microscopic reading and identification of tissue components. • **Theoretical Assignments and In-Class Activities:** Applying theoretical knowledge and monitoring students' understanding throughout the semester. • **Guided Self-Learning:** Encouraging students to use academic electronic resources and stay updated with recent developments in histology.
	C. Assessment Methods 1. **Theoretical Examinations:** To assess students' understanding of core concepts and fundamental knowledge. 2. **Visual-Based Quizzes:** Require students to identify tissues through microscopic images. 3. **Continuous Assessment:** Includes assignments, in-class activities, attendance, and participation. 4. **Short Reports or Mini-Projects:** Students select a histological topic and research it using reliable sources, assessing their research and presentation skills. 5. **Homework, Projects, and Reports:** Used to reinforce understanding and evaluate applied knowledge. 6. **Self and Peer Assessment:** Encourages students to reflect on their own performance and Enhances collaborative learning and group engagement. 7. **Discussion Sessions, Presentations, and Oral Examinations:** To evaluate comprehension, communication, and critical thinking skills. 8. **Written Theoretical Exams (Midterm and Final):** Include essay questions, multiple-choice items, and definitions to assess understanding and analytical ability.
C. Thinking Skills	**C. Thinking Skills** 1. **Interactive Dialogue**: Encouraging critical thinking through guided discussions between the student and the instructor. 2. **Weekly Report Preparation:** Developing analytical and reflective thinking through regular written reports.

	3. **Results Discussion:** Engaging in the interpretation and analysis of outcomes to enhance problem-solving skills. 4. **Exploratory Thinking:** Promoting inquiry-based learning and independent exploration of concepts.
D. General and Transferable Skills	**D. General and Transferable Skills :** By learning these skills , the students will be able to : • Communicate histological concepts effectively in written and oral forms. • Collaborate successfully in team-based academic activities. • Apply problem-solving skills to analyze histological cases. • Manage time efficiently to meet academic requirements. • Use modern learning resources and technologies to enhance understanding. • Engage in self-directed learning for continuous professional growth.

11. Course Structure

Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
١	2	The Knowledge	Introduction and overview of methods used in histology, Classification of Histology, Tissue preparation	Using the whiteboard and screen	Daily exam and oral questions
٢	2	The Knowledge	Overview of Cell structure & types	Using the whiteboard and screen	Daily exam and oral questions
٣	2	The Knowledge	Tissues: Concept and classifications of primary tissues	Using the whiteboard and screen	Daily exam and oral questions
Monthly exam					

4	2	The Knowledge	Epithelial tissue: Simple Ep. T. , Compound Ep. T.	Using the whiteboard and screen	Daily exam and oral questions
5	2	The Knowledge	The glandular Tissues (The Glands)	Using the whiteboard and screen	Daily exam and oral questions
6	2	The Knowledge	Connective and Supportive Tissue: Embryonic and adult C.T.	Using the whiteboard and screen	Daily exam and oral questions
7	2	The Knowledge	Connective Tissue proper (General C.T.)	Using the whiteboard and screen	Daily exam and oral questions
8	2	The Knowledge	Cartilage, Histogenesis, Growth and repair of cartilage	Using the whiteboard and screen	Daily exam and oral questions
9	2	The Knowledge	Bone & Histogenesis of Bone	Using the whiteboard and screen	Daily exam and oral questions
10	2	The Knowledge	The Blood	Using the whiteboard and screen	Daily exam and oral questions
١1	2	The Knowledge	The haemopoietic organ (bone marrow), Formation of blood cells.	Using the whiteboard and screen	Daily exam and oral questions
12	2	The Knowledge	Muscular tissue	Using the whiteboard and screen	Daily exam and oral questions

13-14	4	The Knowledge	Nervous tissue: Overview of nervous system (CNS & PNS) Nervous system: the Nerve cells (neurons) and their classification Supporting cells of nervous system	Using the whiteboard and screen	Daily exam and oral questions
15			Mid- term exam		

12. Course Evaluation

- 5 marks are calculated on reports
- 5 points are calculated on daily exams
- 5 degrees are calculated on the daily preparation
- And the rest of the grade is for the monthly exams

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Human Histology Books
Main references (sources)	• Curriculum scheduled within the sectoral committees
Recommended books and references (scientific journals, reports...)	• *Wheater's Functional Histology* • *Stevens & Lowe's Human Histology* • *Inderbir Singh's Textbook of human histology; last edition.* • *Others.*
Electronic References, Websites	• ncbi, google scholar, research gate

١٤.	
Prerequisites	
Minimum Number of Students	
Maximum Number of Students	

اسم التدريسي : م .د. حنان محسن علي

Email: hananmuhsen71@gmail.com