

Course Description (Human anatomy Practical/second semester)

Performance review of higher education institution (assessment of the academic program)

This course description summarizes the key characteristics and anticipated learning objectives for students, assessing their utilization of available learning resources, and must be aligned with the program description.

1. Educational Institution	Ministry of Higher Education and Scientific Research Al-Zahrawi University
2. University Department / Center	College of Pharmacy
3. Course Name / Code	Human anatomy (Practical)
4. Programs in which it is included	Bachelor of Pharmacy
5. Available Forms of Attendance	Daily Attendance
6. Semester / Year	2nd Semester, first Stage
7. Total Number of Study Hours	2 hours per week for each group
8. Date of preparing this description	2024-2025
9. Course Objectives: To integrate the key concepts and fundamental principles of Human Biology and Histology. By the end of the semester, students should be able to understand the basic structure and organization of the human body, including cells, tissues, organs, and organ systems, and to relate their microscopic structure to their normal functions.	
10 Learning Outcomes, Teaching and Learning Methods, and Evaluation	

A. Knowledge and Understanding

tissues, organs, and organ systems.

A.2: Understand the basic types of human tissues, their microscopic structures, functions, and distribution in the body.

A.3: Develop students' ability to identify and recognize the normal microscopic structure of different cells, tissues, and organs through practical laboratory sessions and microscopic examination

B. Subject-Specific Skills

B.1: Develop skills in the identification and microscopic examination of human cells, tissues, and organs.

B.2: Distinguish between the different types of tissues and recognize their structural and functional characteristics.

B.3: Develop the ability to identify, label, and draw histological structures and biological models accurately.

B.4: Develop the ability to relate the microscopic structure of cells and tissues to their physiological functions and understand the relationship between structural changes and disease conditions.

Teaching and Learning Methods

1. Discussion and dialogue method.
2. Troubleshooting and treatment.
3. Seminars.

C. Evaluation Methods

1. Submission of weekly laboratory reports and completion of assigned practical activities.
2. Oral assessment and evaluation of students' practical performance, including identification of cells, tissues, and histological structures.
3. Written examinations to assess students' knowledge and understanding of Human Biology and Histology.
4. Group practical projects involving the preparation, identification, and presentation of histological specimens or models

D. Thinking Skills

D.1: Encourage students to identify and analyze problems related to Human Biology and Histology.

D.2: Develop students' ability to interpret biological and histological findings and propose appropriate solutions or explanations.

D.3: Develop students' ability to perform practical activities and microscopic examinations independently and collaboratively.

D.4: Encourage students to compare normal histological structures, analyze differences, interpret findings, and troubleshoot practical problems.

E. General and Transferable Skills

D1. The student should be able to think logically to solve problems

- D 2. The student should acquire manual work skills.
- D 3. The student should be able to develop and innovate skills

11. Course Structure

Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	2	Knowledge Experiment skill	Anatomical Terms & Models. Microscopic Usage & Cell Identification	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
2	2	Knowledge Experiment skill	Identification of Various Epithelial, Connective and Muscular Tissue Slides	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
3	2	Knowledge Experiment skill	. Main Bones of the Skeletal System, Microscopic Identification of Compact and Spongy Bone & Types of Cartilage	Blackboard ,Screen Presentations and lab experiment	Daily exam and oral questions
٤	2	Knowledge Experiment skill	Circulatory System (Cardiovascular System) Anatomy & Histology	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
٥	2	Knowledge Experiment skill	Circulatory System: (Lymphatic System) & Blood.	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
٦	2	Knowledge Experiment skill	Digestive System (Part 1 - Upper GIT): Oral cavity, pharynx, esophagus, stomach	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
٧	2	Knowledge Experiment skill	Digestive System (Part 2 - Lower GIT & Accessory Organs): Small intestine, large intestine, rectum, anus. Salivary glands, pancreas, liver, gallbladder.	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
٨	2	Knowledge Experiment skill	Nervous System: Anatomy & Histology: Central Nervous System (brain, spinal cord) and Peripheral Nervous System	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions

			(nerves, ganglia), basic organization		
٩	2	Knowledge Experiment skill	Respiratory System: Anatomy & Histology	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
١٠	2	Knowledge Experiment skill	Urinary System: Anatomy & Histology	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
١١	٢	Knowledge Experiment skill	Endocrine System: Anatomy of pituitary, thyroid, parathyroid, adrenal, pancreas-islets of Langerhans, pineal, gonads	Blackboard , Screen Presentations and lab experiment	Daily exam and oral questions
١٢	٢	Knowledge Experiment skill	Endocrine System: Histology of pituitary, thyroid, parathyroid, adrenal glands, islets of Langerhans, and pineal gland	Blackboard ,Screen Presentations and lab experiment	Daily exam and oral questions
١٣	٢	Knowledge Experiment skill	Male Reproductive System	Blackboard ,Screen Presentations and lab experiment	Daily exam and oral questions
14	2	Knowledge Experiment skill	Female Reproductive System:	Blackboard ,Screen Presentations and lab experiment	Daily exam and oral questions
15	2	Knowledge Experiment skill	Integumentary System (The Skin)	Blackboard ,Screen Presentations and lab experiment	Daily exam and oral questions

12. Infrastructure	
Required Readings:	References: <i>Junqueira's Basic Histology</i> <i>Clinically Oriented Anatomy – Moore</i>
Special Requirements (Workshops, Journals, Software, Websites):	Electronic Websites:
Social Services (Guest Lectures, Professional Training, Field Studies, Others)	Organizing workshops and courses for graduates:

13. Admission:	
Prerequisites	Admission according to the central plan
Minimum Number of Students	/
Maximum Number of Students	Admission exceeds the capacity plan

Name of the Instructor: Muntadher Zyara