

Course Description (Physiology Practical)

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	Al-Zahrawi University
2. University Department / Center	Pharmacy
3. Course Name / Code	Physiology (Practical)
4. Programs in which it is included	Bachelor of Pharmacy
5. Available Forms of Attendance	Daily Attendance
6. Semester / Year	First Semester, Second Stage (2025-2026)
7. Total Number of Study Hours	2 hours per week for each group
8. Date of preparing this description	2025-2026
9. Course Objectives: 1-Understand the structure and functions of various body organs. 2-Learn the mechanisms of balance and imbalance in different body systems. 3-Identify the types of tissues in body organs. 4-Learn the principles of blood tests, heart pressure, heart rate, and lung function tests. 5-Understand the coordinated functioning of organs and different body systems.	
1. Learning Outcomes, Teaching and Learning Methods, and Evaluation	

A. Knowledge and Understanding

- A.1: The student should recognize the basic concepts of human body functions.
- A.2: The student should understand how to apply physiology in clinical practice.
- A.3: The student should explain how different separate body systems produce integrated physiological responses.
- A.4: The student should learn how to link physiology with pathophysiology.
- A.5: The student should identify common laboratory tests in medical sciences.

B. Subject-Specific Skills

- B.1: Teaching skills in the subject of Physiology.
- B.2: The student should have the ability to describe models.
- B.3: The student should have the ability to link causes with natural effects.

Teaching and Learning Methods

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

C. Evaluation Methods

- 1. Submit weekly reports and work in the laboratory.
- 2. Oral assessment and practical performance evaluation.
- 3. Written tests
- 4. Group practical project

D. Thinking Skills

- D1. Encourage students to find problems related to the subject of study
- D2. Encourage students to find solutions to those problems
- D3. Conduct experiments individually and collectively.
- D4. Compare results and troubleshoot

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	Introduction to Blood Physiology	Blackboard and Screen Presentations	Daily exam and oral questions
2-3	4	Knowledge	Packed Cell Volume Determination	Blackboard and Screen Presentations	Daily exam and oral questions
4-5	4	Knowledge	Determination of Hemoglobin Concentration	Blackboard and Screen Presentations	Daily exam and oral questions
6-7	4	Knowledge	Determination of RBCs Indices (MCV, MCH, MCHC)	Blackboard and Screen Presentations	Daily exam and oral questions
8	2	Knowledge	Blood typing and blood Transfusion	Blackboard and Screen Presentations	Daily exam and oral questions
9	2	Knowledge	Determination of bleeding time and Clotting time	Blackboard and Screen Presentations	Daily exam and oral questions
10-11	4	Knowledge	Blood Pressure Measurement	Blackboard and Screen Presentations	Daily exam and oral questions
12	2	Knowledge	Effects of Exercise on blood pressure	Blackboard and Screen Presentations	Daily exam and oral questions
13-14	4	Knowledge	Electrocardiogram (ECG)	Blackboard and Screen Presentations	Daily exam and oral questions
15	2	Knowledge	Experiments on respiratory system (Respiratory rates and volumes)	Blackboard and Screen Presentations	Daily exam and oral questions

12. Infrastructure	
Required Readings:	References: 1.Haematology, Practical Human Anatomy and Physiology, S.R. Kale et al., Nirali Prakashan, Eight Edition, 2002, pp. 28. 2. Marieb, Elaine Nicopon, Zao, Peter Z, Stabler, Timothy, Peterson, Greta. (2005). Human anatomy and physiology laboratory manual: cat version (8th). Toronto: Benjamin Cummings.
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: Aqeel Qays Abd-Uljaleel