

Al-Zahrawi University



College of Pharmacy

**Higher Education Institution Performance Review
(Academic Program Review)**

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

1. Educational Institution	Al-Zahrawi University
2. University Department / Center	Pharmacy College
3. Course Name / Code	Pathophysiology – Practical PCLS 37
4. Programs in which it is included	Bachelor in Pharmacy
5. Available Forms of Attendance	Daily Attendance
6. Semester / Year	First Semester – 3rd Grade
7. Total Number of Study Hours	30 hours (2 hours per week)
8. Date of preparing this description	2025-2026
9. Course Objectives : Understanding Pathogenesis: Grasping how diseases initiate and progress within the body, as well as the functional changes that occur in organs as a result of injury or illness. Enabling the student to interpret the clinical signs and symptoms appearing in a patient based on the biological and chemical changes that have taken place.	
10. Learning Outcomes, Teaching and Learning Methods, and Evaluation	

A. Knowledge and Understanding

- 1 - Describing basic pathophysiology concepts at the cellular level regarding injury, self-defense mechanisms, adaptation, mutation, and cellular proliferation.**
- 2 – Understanding the fundamental factors leading to disease.**
- 3 – Describing the functional and histological impairment of various organs in the body.**
- 4 – Describing the clinical manifestations of different diseases.**

B. Subject-Specific Skills

- 1. Acquiring skill in diagnosing various diseases.**
- 2. Acquiring skill in describing various diseases in a scientific manner.**
- 3. Acquiring skill in classifying various diseases.**
- 4. Acquiring skill in assessing the severity (risk/prognosis) of various diseases.**

Teaching and Learning Methods

- 1. Show pictures and diagrams.**
- 2. Thinking and discussion method.**
- 3. Learning through videos and visual aids.**
- 4. Making acting scenes.**
- 5. Exploratory thinking**

C. Evaluation Methods

- 1. Submit weekly reports.**
- 2 Exam grades are written and oral.**

D. Thinking Skills

- 1. Dialogue method between the student and the teacher.**
- 2. Preparing weekly scenarios.**
- 3. Conducting discussions of situations that the student may have experienced during his life**

E. General and Transferable Skills

- 1. Discussion and dialogue to diagnose the problem.**
- 2. Discussion and dialogue to find solutions.**
- 3. Written tests.**
- 4. Oral assessment.**

11. Course Structure					
Evaluation Method	Learning Method	Unit Name / Course or Topic	Required Learning Outcome	Hour	Week
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	General Introduction to Pathophysiology	Knowledge	2	١
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Water and Electrolytes	Knowledge	2	٢
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Cell Injury And Degenerations	Knowledge	2	٣
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of Respiratory System	Knowledge	2	٤
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of the Cardiovascular System Part 1	Knowledge	2	٥
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of the Cardiovascular System Part 2	Knowledge	2	٦
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of Renal System and Liver Disorders	Knowledge	2	٧
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of the Gastrointestinal Tract	Knowledge	2	٨
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of the Central Nervous System Part 1	Knowledge	2	٩
Daily Quiz and Verbal Questions	Using the whiteboard and the projector	Disorders of the Central Nervous System Part 2	Knowledge	2	١٠

Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of the Reproductive System	Knowledge	2	11
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of Skeletomuscular System	Knowledge	2	12
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Disorders of Endocrine System	Knowledge	2	13
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Growth Disturbances	Knowledge	2	14
Daily Quiz and Verbal Questions	Using the whiteboard and the projector screen	Inflammation, Thrombosis, Neoplasia	Knowledge	2	15

Infrastructure	
Required Reading:	References: Greene, R. J., & Harris, N. D. (2008). Pathology and Therapeutics for Pharmacists: A Basis for Clinical Pharmacy Practice (3rd ed.). Pharmaceutical Press.
Special Requirements (Workshops, Journals, Software, Websites)	Electronic Websites: https://www.mdpi.com/journal/pathophysiology https://www.medscape.com/pathology https://accesspharmacy.mhmedical.com/
Social Services (Guest Lectures, Professional Training, Field Studies, Others)	Organizing workshops and courses for graduates:

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:

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