

## Academic Program Description Form

Reviewing the performance of the higher educational institution ((academic program review))

### Course description

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                                                                                                                                                                                               | College of Pharmacy                |
| 3. Course Name / Code                                                                                                                                                                                                           | Pharmacology III Theory<br>PPCL 45 |
| 4. Programs in which it is included                                                                                                                                                                                             | Bachelor in Pharmacy               |
| 5. Available Forms of Attendance                                                                                                                                                                                                | Daily Attendance                   |
| 6. Semester / Year                                                                                                                                                                                                              | Second Semester 2025-2026          |
| 7. Total Number of Study Hours                                                                                                                                                                                                  | 4 hours weekly                     |
| 8. Date of preparing this description                                                                                                                                                                                           | 2025-2026                          |
| 9. Course Objectives :Knowing the drugs, their names, mechanism of action, their clinical uses, as well as knowing the side effects on patients and drug-drug interactions, drug food interaction and drug disease interaction. |                                    |
| 10. Learning Outcomes, Teaching and Learning Methods, and Evaluation                                                                                                                                                            |                                    |

**A. Knowledge and Understanding**

1- The student should be familiar with the drugs and their names

A-2- The student should be familiar with the clinical uses of drugs

A-3- The student should be familiar with how drugs work inside the body

A-4- The student should be familiar with the side effects of drugs

A-5- The student should be familiar with drug interactions with other drugs

A-6- Preparing trained and qualified cadres to work in government health institutions

A-7- Preparing trained and qualified cadres to work in pharmaceutical institutions

**B. Subject-Specific Skills**

B 1. Teaching skill in the subject of medicine

B 2. The student should have the ability to infer and link clinical information together

B 3. The student should have the ability to link medicines to practical reality in pharmacies and hospitals

**Teaching and Learning Methods**

1. Thinking and discussion method.
2. Scientific tests used in laboratories.
3. Learning by exploratory lecture.

**C. Evaluation Methods**

1. Submit weekly reports.
2. Exam grades.
3. Graduation research

**D. Thinking Skills**

A1. Student-teacher dialogue method.

A2. Preparing weekly reports.

A3. Conducting discussions of the results.

A4. Exploratory thinking.

**Teaching and Learning Methods**

1. Grades.
2. Discussion and dialogue.
3. Tests.

**Evaluation Methods**

Grades, research and reports, tests

**E. General and Transferable Skills**

D 1. The student is able to employ the knowledge he has received.

D 2. The student is able to master the teaching and learning profession.

D 3. The student is able to embody what he has acquired in professional development.

| <b>11. Course Structure</b>     |                                               |                                                                                                                         |                                  |             |             |
|---------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|-------------|
| <b>Evaluation Method</b>        | <b>Learning Method</b>                        | <b>Unit Name / Course or Topic</b>                                                                                      | <b>Required Learning Outcome</b> | <b>Hour</b> | <b>Week</b> |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>The Pituitary Gland and Hypothalamus Hormones</b>                                                                    | Knowledge                        | ٢           | ١           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>The Thyroid Gland Hormones</b>                                                                                       | Knowledge                        | ٢           | ٢           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Estrogens and Androgens Hormones</b>                                                                                 | Knowledge                        | ٢           | ٣           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Progestogens and Contraceptives</b>                                                                                  | Knowledge                        | ٢           | ٤           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Adrenal Hormones</b>                                                                                                 | Knowledge                        | ٢           | ٥           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Drugs Employed in the Treatment of Gout</b>                                                                          | Knowledge                        | ٢           | ٦           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)</b>                                                                    | Knowledge                        | ٢           | ٧           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Drugs Employed in the Treatment of Osteoporosis</b>                                                                  | Knowledge                        | ٢           | ٨           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Anti-Rheumatic Drugs (Traditional Disease-Modifying Antirheumatic Agents and Biologic Therapies in R. Arthritis)</b> | Knowledge                        | ٢           | ٩           |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Insulin and Oral Hypoglycemic Drugs</b>                                                                              | Knowledge                        | ٢           | ١٠          |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Principles of Cancer Chemotherapy</b>                                                                                | Knowledge                        | ٢           | ١١          |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Anticancer Drugs</b>                                                                                                 | Knowledge                        | 4           | ١٢          |

|                                 |                                               |                                                      |  |  |    |
|---------------------------------|-----------------------------------------------|------------------------------------------------------|--|--|----|
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Drugs for Disorders of the Respiratory System</b> |  |  | 13 |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Drugs affecting the blood.</b>                    |  |  | 14 |
| Daily Quiz and Verbal Questions | Using the whiteboard and the projector screen | <b>Antihyperlipidemic drugs</b>                      |  |  | 15 |

| 12. Infrastructure                                                                    |                                                                                                                                                   |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Required Readings:</b>                                                             | <b>References:</b><br><br><b>Lippincott Illustrated Reviews Pharmacology 7th Ed.</b>                                                              |
| <b>Special Requirements (Workshops, Journals, Software, Websites):</b>                | <b>Electronic Websites</b><br><br><a href="https://youtu.be/N0ri0gAIXwM?si=_01Mfh29YHog457C">https://youtu.be/N0ri0gAIXwM?si=_01Mfh29YHog457C</a> |
| <b>Social Services (Guest Lectures, Professional Training, Field Studies, Others)</b> | <b>Organizing workshops and courses for graduates:</b>                                                                                            |

| 11. Admission:                    |                                         |
|-----------------------------------|-----------------------------------------|
| <b>Prerequisites</b>              | Admission according to the central plan |
| <b>Minimum Number of Students</b> | /                                       |
| <b>Maximum Number of Students</b> | Admission exceeds the capacity plan     |

**Name of the Instructor:**  
**Mahmood Jasem Jawad**