

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Evaluation Authority  
Department of Quality Assurance and Academic Accreditation  
Accreditation Department**



# **Academic Program and Course Description Guide**

**2024**

## **Introduction:**

The educational program is a coordinated and organized package of courses that include procedures and experiences organized in the form of academic vocabulary whose main purpose is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market, which is reviewed and evaluated annually through internal or external audit procedures and programs such as the external examiner program.

The academic program description provides a summary of the main features of the program and its courses, indicating the skills students are working to acquire based on the academic program objectives. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and faculty members participate in writing it under the supervision of the scientific committees in the scientific departments.

This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work.

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the smooth conduct of the educational process.

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## **Concepts and Terminology:**

**Academic Program Description:** The description of the academic program provides a summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be a developed, inspiring, motivating, realistic, and applicable program.

**The Program's Mission:** It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

**Program Objectives:** These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum Structure:** All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

**Learning Outcomes:** A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

**Teaching and Learning Strategies:** They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the program.

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## Academic Program Description Form

**University Name:**.....

**College/Institute: College:** Al-Safwa University College

**Scientific Department:** Department of Anesthesia Techniques.

**Name of the academic or professional program:** pharmacology.

**Name of Final Degree:** Bachelor's degree in Anesthesia Techniques.

**Academic System:** Semester.

**Description preparation date:** 10 /5 / 2023

**Date of filling the file:** 13/03/2024

**Signature**

**Name of Scientific Assistant:**

**Date:**

**Signature**

**Name of Department Head:**

**Date:**

Check the file by

Division of Quality Assurance and University Performance.

Name of the Director of the Quality Assurance and University Performance

Division:

Date:

Signature

Dean's approval

### **1. Program Vision**

Al Safwa University College seeks to be one of the leading higher education institutions in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in all fields.

### **2. Program Message**

Working to prepare and graduate leading scientific and leadership competencies in anesthesia techniques and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

### **3. Program Objectives**

5. Embodying the vision, mission and goals of Al-Safwa University College, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.

Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.

3. Spreading the culture of human diversity in society, transferring scientific knowledge and skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and learning.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in all fields of education.

7. Focusing on the educational and moral aspects of the student and instilling a spirit of dedication, tolerance and commitment.

| 4. Programmatic Accreditation   |
|---------------------------------|
| Theoretical and practical study |

| 5. Other External Influences |
|------------------------------|
| Libraries, Internet.         |

| 6. Program Structure    |                   |            |            |                  |
|-------------------------|-------------------|------------|------------|------------------|
| Program Structure       | Number of courses | Study unit | Percentage | Note             |
| Enterprise Requirements | 15                | 4          |            | Secondary course |
| College Requirements    | yes               |            |            |                  |
| Department Requirements | yes               |            |            |                  |
| Summer Training         |                   |            |            |                  |
| Other                   |                   |            |            |                  |

\* It can include notes whether the course is basic or optional.

| 7. Program Description   |              |                       |                                                                               |
|--------------------------|--------------|-----------------------|-------------------------------------------------------------------------------|
| Year/Level               | Course Name  | Course or Course Code | Credit Hours                                                                  |
| 2023-2024 / Second stage | Pharmacology |                       | <b>Theoretical</b><br>1 hour per week<br><b>practical</b><br>2 hours per week |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8. Expected Learning Outcomes Of The Program</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Knowledge</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Informing students about the importance of pharmaceutical and how to deal with them.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Skills</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Expanding the student's skill in the optimal, effective and safe use of medications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Values</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ol style="list-style-type: none"> <li>1. Developing students' abilities to respect the privacy of patients.</li> <li>2. Consolidating moral values in the method of using pharmaceutical, especially anesthetic drugs and the methods of administering them.</li> <li>3. Impermissible to describe or given drug with the intention of harming the patient, and it is not permissible to use a medicine whose ingredients is unknown.</li> <li>4. Developing students' abilities in sharing ideas and scientific and practical skills .</li> </ol> |
| <b>9. Teaching and Learning Strategies</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <ol style="list-style-type: none"> <li>1. Explain the scientific material using the slideshow program blackboard and posters to deliver ideas of importance in the scientific material.</li> <li>2. Writing a review paper summarizing the most important ideas presented during the lectures.</li> <li>3. Linking the educational ideas of the material with the critical opinions of students.</li> </ol>                                                                                                                                         |
| <b>10. Evaluation Methods</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ol style="list-style-type: none"> <li>1. Scientific discussion, oral dialogue, monthly and final exams.</li> <li>2. Practical activities and Homework.</li> <li>3. Writing and submitting reports and taking notes on the medical experiences gained in field visits and summer training.</li> <li>4. Proficiency tests to determine the level of learner acquisition of information and skills in a course that has been previously learned on questions and paragraphs that represent the content of the course.</li> </ol>                      |

## 11. Faculty

### Faculty Members

| Preparation of the teaching staff |       | Special Requirements /Skills (if applicable) | Specialization                      |                           | Academic Rank      |
|-----------------------------------|-------|----------------------------------------------|-------------------------------------|---------------------------|--------------------|
| Lecture                           | Staff |                                              | special                             | General                   |                    |
|                                   | Staff |                                              | Pharmacology and toxicology science | Physiology & pharmacology | Assistant Lecturer |

## 12. Program Development Plan

A. Using the method of solving problems related to the use of medications by involving students in the discussion lessons and conducting a short exam at the end of the discussion lesson. The grades of these exams will be the basis for the student's semester pursuit after adding the final grade of the first semester.

B. Developing electronic lectures and creating electronic communication platforms that are more capable of communicating with students.

C. Students provide feedback at the end of the module, which is used to review and improve the module.

D. The department's board and faculty meet with students regularly and provide a forum in which any aspect of teaching can be discussed.

E. Involving students in the membership of the board of directors of the department and the college to discuss topics related to the development of the provision of scientific material.

F. Periodic review of the decision by the department head .

[illegible]

## Course Description Form

|                                                                                                                                                                                                                |                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Course Title:</b>                                                                                                                                                                                        |                                                                                                                                     |
| Pharmacology                                                                                                                                                                                                   |                                                                                                                                     |
| <b>Course Code:</b>                                                                                                                                                                                            |                                                                                                                                     |
|                                                                                                                                                                                                                |                                                                                                                                     |
| <b>2. Semester / Year :</b>                                                                                                                                                                                    |                                                                                                                                     |
| Semester                                                                                                                                                                                                       |                                                                                                                                     |
| <b>3. The history of the preparation of this description</b>                                                                                                                                                   |                                                                                                                                     |
| 14/ 02/ 2024                                                                                                                                                                                                   |                                                                                                                                     |
| <b>4. Available Forms of Attendance:</b>                                                                                                                                                                       |                                                                                                                                     |
| Attendance (face-to-face learning)                                                                                                                                                                             |                                                                                                                                     |
| <b>5. Number of Credit Hours (Total) / Number of Units (Total):</b>                                                                                                                                            |                                                                                                                                     |
| 3 hours per week 1 hour theoretical, 2 hours practical<br>Number of Units: 4 units                                                                                                                             |                                                                                                                                     |
| <b>6. Course administrator's name (if more than one name)</b>                                                                                                                                                  |                                                                                                                                     |
| Roaa Khaled Jabbar - Email: <a href="mailto:ruaa.khaled1206a@covm.uobaghdad.edu.iq">ruaa.khaled1206a@covm.uobaghdad.edu.iq</a>                                                                                 |                                                                                                                                     |
| <b>7. Course Objectives</b>                                                                                                                                                                                    |                                                                                                                                     |
| 1. At the end of the year, the student will be able to distinguish the medications used in spinal and general anesthesia.<br>2. How to use medications according to the affected part, age, gender and weight. |                                                                                                                                     |
| <b>8. Teaching and Learning Strategies</b>                                                                                                                                                                     |                                                                                                                                     |
| <b>Strategies</b>                                                                                                                                                                                              | 1. Education strategy collaborative concept planning.<br>2. Brainstorming education strategy.<br>3. Education Strategy Notes Series |

## 9. Course Structure

| Evaluation Method                                 | Learning Method                   | Unit Or Subject Name | Required Learning Outcomes                                                                                                       | Horus                                                                                                                                                                | week   |    |
|---------------------------------------------------|-----------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion | Pharmacology         | Introduction, general aspects of pharmacology, principle of drug administration pharmacokinetic, principles in the use of drugs. | 3 hour                                                                                                                                                               | 1      |    |
|                                                   |                                   |                      | Drug metabolism and excretion.                                                                                                   | 3 hour                                                                                                                                                               | 2      |    |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |                      | Drug action on cardiovascular system.                                                                                            | 3 hour                                                                                                                                                               | 3      |    |
|                                                   |                                   |                      | Drug effects on respiratory system parts and diseases of respiratory system.<br>Expectorant ,<br>bronchodilator, antitussive     | 3 hour                                                                                                                                                               | 4      |    |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |                      |                                                                                                                                  | Drugs action on digestive system. Parts and diseases of digestive system. Drugs act on higher part of digestive system. Drugs act on lower part of digestive system. | 3 hour | 5  |
|                                                   |                                   |                      | 3 hour                                                                                                                           |                                                                                                                                                                      | 6      |    |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |                      | Drugs acting on urinary system diuretics, antidiuretic, urinary antiseptic.                                                      | 3 hour                                                                                                                                                               | 7      |    |
|                                                   |                                   |                      |                                                                                                                                  | 3 hour                                                                                                                                                               | 8      |    |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |                      | Blood dysfunctions, drugs affecting blood platelet inhibitors , anticoagulant, treatment of bleeding , anti anemic drugs.        | 3 hour                                                                                                                                                               | 9      |    |
|                                                   |                                   |                      |                                                                                                                                  | 3 hour                                                                                                                                                               | 10     |    |
| Quiz<br>Classroom activities                      | Theoretical lecture<br>Discussion |                      |                                                                                                                                  | Hormones, classification, insulin, glucagon hypoglycemic agent, adrenal steroids.                                                                                    | 3 hour | 11 |
|                                                   |                                   |                      |                                                                                                                                  |                                                                                                                                                                      | 3 hour | 12 |

|                                                   |                                   |              |                                                                      |        |    |
|---------------------------------------------------|-----------------------------------|--------------|----------------------------------------------------------------------|--------|----|
| Theoretical exams                                 |                                   |              |                                                                      |        |    |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |              | Antimicrobial drug, classification.                                  | 3 hour | 13 |
|                                                   |                                   |              | Antibacterial agents, antifungal agents, antiviral                   | 3 hour | 14 |
|                                                   |                                   |              |                                                                      | 3 hour | 15 |
| Midyear Holiday                                   |                                   |              |                                                                      |        |    |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion | Pharmacology | Drug action of nervous system. General aspects of neuropharmacology. | 3 hour | 16 |
|                                                   |                                   |              | Skeletal muscle relaxants.                                           | 3 hour | 17 |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |              | Local anaesthetics.                                                  | 3 hour | 18 |
|                                                   |                                   |              | General anaesthetics.                                                | 3 hour | 19 |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |              |                                                                      | 3 hour | 20 |
|                                                   |                                   |              | Hypnotic and sedative drugs.                                         | 3 hour | 21 |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |              |                                                                      | 3 hour | 22 |
|                                                   |                                   |              | Antipsychotic and anti anxiety drugs.                                | 3 hour | 23 |
| Quiz<br>Classroom activities<br>Theoretical exams | Theoretical lecture<br>Discussion |              | Antiparkinson's drugs.                                               | 3 hour | 24 |
|                                                   |                                   |              | Antiepileptic drugs.                                                 | 3 hour | 25 |
| Quiz<br>Classroom activities                      | Theoretical lecture<br>Discussion |              | Narcotic (Opioid), analgesic                                         | 3 hour | 26 |
|                                                   |                                   |              | Autacoid drug.                                                       | 3 hour | 27 |
| Quiz<br>Classroom activities                      | Theoretical lecture<br>Discussion |              | Central nervous system stimulants.                                   | 3 hour | 28 |
|                                                   |                                   |              |                                                                      |        |    |

|                                 |                                      |  |                                   |        |    |
|---------------------------------|--------------------------------------|--|-----------------------------------|--------|----|
| Quiz<br>Classroom<br>activities | Theoretical<br>lecture<br>Discussion |  | Drug interactions.                | 3 hour | 29 |
| Quiz<br>Classroom<br>activities | Theoretical<br>lecture<br>Discussion |  | Antiseptics and<br>disinfectants. | 3 hour | 30 |

## 10. Course Evaluation

The distribution is as follows: Annual pursuit 40%  
 40 degrees for the first semester.  
 40 degrees for the second semester.  
 60% for the final exam for two semester.

## 11. Learning and Teaching Resources

|                                                                             |                                                                                                                                                                               |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Required textbooks<br>(methodology, if any)                                 | <ul style="list-style-type: none"> <li>• Basic and Clinical pharmacology, Katzung 15th Edition.</li> <li>• Lippincott Pharmacology Illustrated Reviews.8th Edition</li> </ul> |
| Main references<br>(sources)                                                | <ul style="list-style-type: none"> <li>• Goodman and Gilman, the pharmacology basis of therapeutic.</li> </ul>                                                                |
| Recommended books<br>and references<br>(Scientific journals,<br>reports...) | <ul style="list-style-type: none"> <li>• British Journal of Clinical Pharmacology.</li> <li>• Clinical Pharmacology and therapeutics.</li> </ul>                              |
| Electronic References,<br>Websites                                          | <p>BNF.<br/>         FDA, USA Food and drug administration.</p>                                                                                                               |