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

# Academic Program and Course Description Guide

**2024**

# Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

## Concepts and terminology:

**Academic Program Description:** The academic program description provides a brief 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 brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have 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 sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They 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 / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

# Academic Program Description Form

**University Name: University of Diyala**

**Faculty/Institute: College of Medicine**

**Scientific Department: Medicine**

**Academic or Professional Program Name: Bachelor of Medicine and General Surgery**

**Final Certificate Name: Bachelor of Medicine and General Surgery**

**Academic System: Courses (first course + second course)**

**Description Preparation Date:**

**2024**

**File Completion Date:10\2\2024**

| | |
|---|---|
| **Signature:** | **Signature:** |
| **Head of Department Name:** | **Scientific Associate Name:** |
| **Date:** | **Date:** |

**The file is checked by:**

**Department of Quality Assurance and University Performance**

**Director of the Quality Assurance and University Performance Department:**

**Date:**

**Signature:**

## Approval of the Dean

## 1. Program Vision

Following graduation, our students will be able to work in a multidisciplinary team in health sector to ensure the team's optimal functioning and effective patient outcomes.

## 2. Program Mission

Following graduation, our students will be able to work in a multidisciplinary team in health sector to ensure the team's optimal functioning and effective patient outcomes.

## 3. Program Objectives

- Achieving of quality standards and medical accreditation according to IGL derived on the basis of scientific institutional quality standards.
- Graduating medical doctors, with a bachelor's degree in medicine and general surgery, who will be well-prepared to conduct a patient examination, diagnose the disease, and dispense treatment on a scientific and medical basis, advanced clinical, and professional knowledge, skills, and attitudes they need to practice in an ethical manner to provide excellent health services and enable them for long life learning.
- Following graduation, our students will be able to work in a multidisciplinary team in health sector to ensure the team's optimal functioning and effective patient outcomes.
- Preparing doctors who will be able to interact in the workplace and solve urgent problems in response to the needs of the health delivery system/ society and changing circumstances which make them capable of working in Iraq and internationally, as well as pursuing postgraduate study and training in any medical branch.
- Graduating doctors with high skills and knowledge in conducting scientific research in basic, clinical, behavioral, and biomedical fields.
- Encouraging faculty, staff, and students to enhance their technical skills and utilize information and communication technology to convey knowledge, produce scientific research, and create curricula for educational programs.
- Implementing a development program for the faculty and staff.

**Institution Requirements**

**College**

## 4. Program Accreditation

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| |

| 5. **Other external influences** |
|---|
| Teaching hospital, library, internet, community, doctors' syndicate |

| 6. **Program Structure** | | | | |
|---|---|---|---|---|
| **Program Structure** | **Number of Courses** | **Credit hours** | **Percentage** | **Reviews*** |
| Institute requirement | ٤ | ٨ | ٪١٠٠ | |
| College requirement | ٤ | ٨ | ٪١٠٠ | |

| | | | | |
|---|---|---|---|---|
| **Department Requirements** | ٤ | ٨ | ٪١٠٠ | |
| **Summer Training** | \\\\\\\ | \\\\\\\ | \\\\\\\ | |
| **Other** | \\\\\\\\\\\\\\\ | \\\\\\\\\\\\\ | \\\\\\\\\\\\\ | |

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

## 7. Program Description

| Year/Level | Course Code | Course Name | Credit Hours | |
|---|---|---|---|---|
| 2023-2024/Third | PHA309 | pharma | **theoretical** | **practical** |
| | | | 96 | 64 |

## 8. Expected learning outcomes of the program

| **Knowledge** | |
|---|---|
| Introducing students to the principles of pharmacology and their relationship to the health system followed. | Learning Outcomes Statement 1 |
| **Skills** | |
| Providing students with special skills to know the health problems that society suffers from, their causes, how diseases are distributed and the influence of various factors in them, and to know the most appropriate ways and means to solve these problems. | Learning Outcomes 3 |
| Learning Outcomes 4 | Learning Outcomes Statement 4 |
| Learning Outcomes 5 | Learning Outcomes Statement 5 |
| **Ethics** | |
| | |
| Gain the ability to deal with patients and meet their needs. | |
| Gain the ability to optimally deal with medical records and statistics. | |

## 9. Teaching and Learning Strategies

1 - Giving theoretical lectures.
2 - Special practical laboratories to gain skills in solving statistical problems.
3- Laboratory of application of nutritional measurements.
4- Practical and clinical training in hospitals and health centers.

5- Field training to various relevant institutions.
6- Integrated, in-person and e-learning (via the Classroom platform).
7- Seminars and weekly discussion groups.
8- Small group discussion and suggestion of solutions to individuals and community problems.

## 10. Evaluation methods

Mid-course and final exams.
2- Pop quizzes.
3- Score for exercises.
4- Oral, practical and clinical examinations.
5- Reports.

## 11. Faculty

### Faculty Members

| Academic Rank | Specialization | | Special Requirements/Skills (if applicable) | | Number of the teaching staff | |
|---|---|---|---|---|---|---|
| | General | Special | | | Staff | Lecturer |
| Professor | Medicine and General Surgery | Medicine | | | 1 | |
| Professor | Chemical | Bio chemical | | | 1 | |
| A. Professor | Pharmacology | Pharma | | | 1 | |
| Lecturer | Medicine and General Surgery | Community Medicine | | | 1 | |
| Lecturer | Physics | Medical physics | | | 1 | |

### Professional Development

**Mentoring new faculty members**

Introductory seminars and symposia for new faculty members with periodic meetings to introduce them to the work with daily guidance and continuous follow up along with advising and instructing them.

**Professional development of faculty members**

Continuous learning by searching for developments using the library and the Internet, in addition to attending seminars and specialized scientific symposia, along with active attendance in teaching hospitals to hone skills.

## 12. Acceptance Criterion

The admission is centralized through the Ministry of Higher Education and Scientific Research, based on the student's score in the twelfth grade (scientific branch) after preparing the online form for that.

| 13. The most important sources of information about the program |
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| University and college website, in addition to website of the Ministry of Higher Education and Scientific Research, along with college library and university's central library. |

| 14. Program Development Plan |
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| |

- Developing the scientific and administrative staff in the college through annual evaluation files that reveal strengths and weaknesses.
- Carrying out evaluation studies related to developing and improving the performance of senior leaders, faculty members and staff working in the college.
- Propose strategies, plans and operational policies to ensure quality and reliability.
- Develop guidelines for methods of applying quality and academic accreditation in order to reach the best.
- Developing detailed data and statistics about the college, its objectives, departments, activities and future plans to be accomplished.
- Providing advice and guidance on what the institution should do in order to improve for the best in full compliance with accreditation standards.

| Program Skills Outline | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Required program Learning outcomes | | | | | | | | | | | |
| Year/Level | Course Code | Course Name | Basic or optional | Knowledge | | | | Skills | | | | Ethics | | | |
| | | | | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 |
| 2023-2024/Third | PHA309 | Pharmacology | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
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- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

# Course Description Form

| 1. Course Name: | |
|---|---|
| Pharmacology | |
| 2. Course Code: | |
| PHA309 | |
| 3. Semester / Year: | |
| 2023\2024 | |
| 4. Description Preparation Date: | |
| 10\2\2024 | |
| 5. Available Attendance Forms: | |
| Mandatory attendance | |
| 6. Number of Credit Hours (Total) / Number of Units (Total) | |
| Total number of hours: 96 theoretical hours +64practical hours (8 units) | |
| 7. Course administrator's name (mention all, if more than one name) | |
| Name:ph.D ali mousa jafar<br>Emial ali@uodiyala.edu.iq | |
| 8. Course Objectives | |
| **Course Objectives** | • Providing students with special skills to know the health problems that society suffers from, their causes, how diseases are distributed and the influence of various factors in them, and to know the most appropriate ways and means to solve these problems.<br>• Providing students with basic skills to perform various statistical tests.<br>Providing students with the skills to measure the nutritional status of the population |
| 9. Teaching and Learning Strategies | |

| | |
|---|---|
| **Strategy** | Giving theoretical lectures.<br>Special practical laboratories to gain skills in solving statistical problems.<br>Laboratory of application of nutritional measurements.<br>Practical and clinical training in hospitals and health centers.<br>Field training to various relevant institutions.<br>Integrated, in-person and e-learning (via the Classroom platform).<br>Seminars and weekly discussion groups.<br>Small group discussion and suggestion of solutions to individuals and community problems. |

10. Course Structure

| Week | Hours | Required Learning Outcomes | Unit or subject name | Learning method | Evaluation method |
|---|---|---|---|---|---|
| | | | | | |

| 11.Cours Evaluation |
|---|
| Mid-course and final exams.<br>2- Pop quizzes.<br>3- Score for exercises.<br>4- Oral, practical and clinical examinations.<br>5- Reports |
| **12. Learning and Teaching Resources** |
| Required textbooks (curricular book , if any) Lippincott Illustrated Review of Pharmacology |
| Main references (source) |
| - Recommended book and references (scientific journals , reports .....)<br>- Katzung Basic and Clinical Pharmacology<br>**Rang and Dale Clinical Pharmacology** |
| Electronic References , Website www.drugs.com<br>**www.Pubmed.com** |

# First Course Subjects/Theory

. The structure of the course

| valuation METHOD | Learning method | Unit or subject name | Required Learning | Hours | Week ١ |
|---|---|---|---|---|---|
| Exam | Lecture | **Pharmacology** | **Pharmacokinetics and Pharmacodynamics** | ٦ | ١ و ٢ |
| Exam | Lecture | **Pharmacology** | **Autonomic nervous System** | ٦ | ٣ و ٤ |
| Exam | Lecture | **Pharmacology** | **Autocoids** | 3 | 5 |
| Exam | Lecture | **Pharmacology** | **Drugs for Central Nervous System** | ١٢ | 6 و ٧ و ٨ و ٩ |
| Exam | Lecture | **Pharmacology** | **Drugs for Cardiovascular System** | ٩ | ١٠ و ١١ و ١٢ |
| Exam | Lecture | **Pharmacology** | **Drugs for Blood** | ٦ | ١٣ و ١٤ |

| | | | | | |
|---|---|---|---|---|---|
| Exam | Lecture | **Pharmacology** | **NSAIDs and Gout** | **3** | **15** |

# First Course Subjects/Practical

. The structure of the course

| aluation METHOD | Learning method | Unit or subject name | Required Learning | Hours | Week |
|---|---|---|---|---|---|
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Introduction to Pharmacology** | **3** | **1** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Pharmacokinetics** | **3** | **2** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Pharmacodynamics** | **3** | **3** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Dosage forms** | **3** | **4** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Routes of administration** | **3** | **5** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Beta-Blockers** | **3** | **6** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Nitric oxide** | **3** | **7** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Eye drops** | **3** | **8** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Physostigmine** | **3** | **9** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Exercise and heart rate** | **3** | **10** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drug Interactions** | **3** | **11** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drugs in Pregnancy** | **3** | **12** |

| | | | | | |
|---|---|---|---|---|---|
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drugs in Lactation** | **3** | **13** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Adverse Drug Reactions** | **3** | **14** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drug Calculations** | **3** | **15** |

# Second Course Subjects/Theory

| The structure of the course | | | | | |
|---|---|---|---|---|---|
| **valuation** | **Evaluation** | **Evaluation** | **Evaluation** | **luation** | **valuation** |
| Exam | Lecture | Pharmacology | Drugs for Respiratory System | 3 | **1** |
| Exam | Lecture | Pharmacology | Antimicrobial Drugs | ١٥ | **2 و 3 و 4 و 5 و 6** |
| Exam | Lecture | Pharmacology | Anticancer Drugs | 3 | **7** |
| Exam | Lecture | Pharmacology | Drugs for Endocrine System | ١٢ | **8 و 9 و 10 و 11** |
| Exam | Lecture | Pharmacology | Drugs for Gastrointestinal Drugs | ٦ | **12 و 13** |
| Exam | Lecture | Pharmacology | Miscellaneous Drugs and subjects | ٦ | **14 و 15** |

# Second Course Subjects/Practical

| . The structure of the course | | | | | |
|---|---|---|---|---|---|
| **aluation** | **Evaluation** | **Evaluation** | **Evaluation** | **uation** | **uation** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Measuring blood pressure and heart rate** | **3** | **1** |

| | | | | | |
|---|---|---|---|---|---|
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Effect of Atropine on the eye** | **3** | **2** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Toxicity of Physostigmine** | **3** | **3** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **The effect of adrenaline on the heart** | **3** | **4** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drug dissolution and deposition** | **3** | **5** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Animal handling** | **3** | **6** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Injections** | **3** | **7** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Respirometer** | **3** | **8** |
| Exam | Lecture | **Pharmacology** | **Toxicity of the drugs** | **3** | **9** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Clinical trials** | **3** | **10** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drug in renal failure** | | **11** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drug in liver failure** | | **12** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Experimental Pharmacology** | | **13** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Drug Abuse** | | **14** |
| Exam | Lecture + laboratory experiment | **Pharmacology** | **Discussion of Seminars** | | **15** |