

**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.

Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: College of Medicine

Scientific Department: chemistry and Biochemistry


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

Final Certificate Name: Bachelor of Medicine and General Surgery

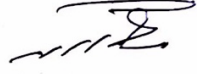
Academic System: yearly system

Description Preparation Date: 1/5/2024

File Completion Date: 1/12/2024

Signature: 
Head of Department Name: Date:

Prof.dr. Entedhar R. Sarhat

Signature: 
Scientific Associate Name:
Ast prof Hashem added alstar

Date: 1/12/2024

The file is checked by:

عذراء كامل حسين العبيدي
مسؤول شعبة ضمان الجودة

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department: Date:1/12/2024

Signature: 

Approval of the Dean





1. Program Vision

The College of Medicine seeks to be one of the leading higher education institutions at Tikrit University 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 the fields of medicine and general surgery.

2. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the field of medicine and its sciences 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

1. Embodying the vision, mission and goals of Tikrit University, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. 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 knowledge and skills in the field of medicine, 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 the fields of medicine and general surgery. Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

5. Other external influences

Is there a sponsor for the program?

6. Program Structure

| Program Structure | Number of Courses | Credit hours | Percentage | Reviews* |
|--------------------------|---------------------|--------------------------------|------------|----------|
| Institution Requirements | Biochemistry | 2 hours Theoretical | | |
| College Requirements | | | | |

| | | | | |
|--------------------------------|--|--|--|--|
| Department Requirements | | | | |
| 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 | |
| | | | theoretical | practical |
| 2024\2025 | | biochemistry | 2 | 3 |

| 8. Expected learning outcomes of the program | |
|---|---|
| Knowledge | |
| Learning Outcomes 1 | Introducing students to chemistry and its relationship to the body, its organs, metabolic processes, and understanding the reactions that occur |
| Skills | |
| Learning Outcomes 2 | Expanding laboratory work skills |
| Learning Outcomes 3 | Expanding the skill of biochemical analysis |
| Ethics | |
| Learning Outcomes 4 | Teaching students to analyze scientific ideas and knowledge in the field of biochemistry |
| Learning Outcomes 5 | Developing students' skills in the field of pathological analyses |

| 9. Teaching and Learning Strategies |
|--|
| <p>1- Explaining the scientific material by presenting metabolic diagrams and chemical reactions.</p> <p>2- Conduct daily tests, either on paper or during lectures by asking questions to students.</p> |

3- Linking scientific knowledge with students' ideas to facilitate understanding of the scientific material.

10. Evaluation methods

Weekly, monthly, daily exams and the end of the year exam.

11. Faculty

Faculty Members

| Academic Rank | Specialization | | Special Requirements/Skills (if applicable) | | Number of the teaching staff | |
|---------------|----------------|---------|---|--|------------------------------|----------|
| | General | Special | | | Staff | Lecturer |
| | | | | | | |

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

Richard A. Harvey and Denise R. Ferrier, Lippincott's Illustrated Reviews: Biochemistry, Copyright © (2011) Lippincott Williams & Wilkins, a Wolters Kluwer business

14. Program Development Plan

Using modern technologies, devices and methods in education to facilitate understanding of information and develop skills among students

| 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 |
| 2024\2025 | | Biochemistry | Basic | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

| |
|---|
| 1. Course Name: |
| Biochemisty |
| 2. Course Code: |
| |
| 3. Semester / Year: |
| yearly |
| 4. Description Preparation Date: |
| 15/ 01/ 2025 |
| 5. Available Attendance Forms: |
| Attendance system only |
| 6. Number of Credit Hours (Total) / Number of Units (Total) |
| 60 theoretical hours in year. 3 hours per week |
| 7. Course administrator's name (mention all, if more than one name) |
| Name: Prof.Dr.Firas Shawqi Algburi Email: dr.firas.shawki@tu.edu.iq |
| 8. Course Objectives |

| | |
|--------------------------|--|
| Course Objectives | 1 - Providing students with 2- Teaching students to u |
|--------------------------|--|

9. Teaching and Learning Strategies

| | |
|-----------------|--|
| Strategy | 1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series |
|-----------------|--|

10. Course Structure

| Week | Hours | Required Learning Outcomes | Unit or subject name | Learning method |
|-------------|--------------|-----------------------------------|---|------------------------|
| 1 | | | -Introduction to biochemistry; pH concept & acid base balance | |
| 2 | | | -Chemistry safety | |
| 3 | | | -Carboxylic acid& Alcohol and Aldehyde & Ketone | |
| 4 | | | -Carbohydrates | |
| 5 | | | -Carbohydrates metabolism 1 | |
| 6 | | | -Carbohydrates metabolism 2 | |
| 7 | | | -Lipid | |
| 8 | | | -Lipid metabolism 1 | |
| 9 | | | -Lipid metabolism 2 | |
| | | | -protein | |
| | | | -Protein metabolism 1 | |

| | | | | |
|--|--|--|---|--|
| 10 | | | -Protein metabolism 2 | |
| 11 | | | -Bone mineral | |
| 12 | | | -Calcium turnover and parathyroid hormone | |
| 13 | | | -Vit. D metabolism | |
| 14 | | | -immunoglobulin | |
| 15 | | | -Ag-Ab reaction | |
| 16 | | | -compliment | |
| 17 | | | -Metabolism of RBC | |
| 18 | | | -HB structure | |
| 19 | | | -Iron metabolism and TIBC | |
| 20 | | | -Biochemical events in clotting process | |
| 21 | | | -Biochemical changes in leukaemia | |
| 22 | | | -Neurotransmitters | |
| 23 | | | -Chemical carcinogens | |
| 24 | | | -Energy requirement | |
| | | | -Lipoprotein | |
| 11. Course Evaluation | | | | |
| Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc | | | | |
| 12. Learning and Teaching Resources | | | | |
| Required textbooks (curric books, if any) | | Richard A. Harvey and Denise R. Ferrier, Lippincott's Illustrated Reviews: Biochemistry, Copyright © (2011) | | |

| | | |
|--|---|---|
| | Lippincott Williams & Wilkins, a Wolters Kluwer business | |
| Main references (sources) | | |
| Recommended books and references (scientific journals, reports...) | Lehninger PRINCIPLES OF BIOCHEMISTRY, Fourth Edition | |
| Electronic References, Websites | https://ifeet.org/files/-Richard A. Harvey, Denise R. Ferrier- Biochemistry.p | https://mis.kp.ac.rw/admin/admin_panel/kp_lms/files/digital/Corse%20David%20L.%20Nelson,%20Michael%20M.%20Cox.pdf |