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: **Al Muthanna**
Faculty/Institute: **Science of college**
Scientific Department: **Biology**
Academic or Professional Program Name: **Bsc Biology**
Final Certificate Name: **Bsc Biology**
Academic System: **course**
Description Preparation Date: **1/3/2024**
File Completion Date: **1/3/2024**

Signature:
Head of Department Name:
Hanaa Ali Aziz
Date:

Signature:
Scientific Associate Name:
Assist.Prof.Maitham Abbas Makei
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**
Program vision is written here as stated in the university's catalogue and website.

2. **Program Mission**
Program mission is written here as stated in the university's catalogue and website.

3. **Program Objectives**
1-Providing students with experience in applied life sciences. 2- Providing state institutions with specialized cadres. 3- Preparing cadres with high experience in life sciences and experience in knowing high-tech devices. 4- Providing students with scientific techniques in using devices and equipment that can be used in their theoretical and applied studies. 5--Research and study everything new in biological sciences and keep pace with scientific developments in this field.

4. **Program Accreditation**
Does the program have program accreditation? And from which agency? NO

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				
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	
Master+ Ph.D		**Animal Physiology**	**theoretical**	**practical**
			2	**2**

8. Expected learning outcomes of the program

Knowledge	
Cognitive goals 1- Providing the student with sufficient information to gain experience in dealing with life sciences and laboratory techniques. 2- Gain experience in knowing all laboratory equipment and modern technologies. 3- Providing him with sufficient information to keep up with and study modern sciences.	
Skills	
Skills objectives of the programme	

1- He has experience in knowing and operating equipment for laboratory tests. 2- Possessing scientific knowledge to keep pace with modern developments in biological sciences.	

Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

Practical theoretical lectures, scientific seminars, application in laboratories, in addition to the training courses held by the department.

10. Evaluation methods

Through weekly and quarterly examinations, in addition to scientific reports.

11. Faculty

Faculty Members

Academic Rank	**Specialization**		**Special Requirements/Skills (if applicable)**		**Number of the teaching staff**	
	General	**Special**			**Staff**	**Lecturer**
Assist. Prof	Biology	physiology			✓	

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
Personal development is planned through access to modern scientific sources, in addition to participating in training courses inside and outside the country in the field of scientific specialization.

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**
State briefly the sources of information about the program.

14. Program Development Plan

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	
Master+Ph.D		Animal physiology	Basic	+	+	+	+	+	+	+	+	+	+			

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

Course Description Form

1. Course Name: Animal Phsiology
2. Course Code:
3. Semester / Year: Semester
4. Description Preparation Date:1/3/2024
5. Available Attendance Forms: 1/3/2024
6. Number of Credit Hours (4) / Number of Units (3)
7. Course administrator's name (mention all, if more than one name)
Name: Assist.Prof. Hanaa Ali Aziz Email: hanabio-1983@mu.edu.iq
8. Course Objectives

Course Objectives	Define the physiological science in the deferent systems .Diagnosis the main character of specific signs of cells Determined the relationship between the internal and external environment. 2. This course give an overview Define the physiological science in the deferent systems .Diagnosis the main character of specific signs of cells Determined the relationship between the internal and external environment 3. learning the students of normal physiological actions in the all body organs the deferent systems. The students able to determine the normal and abnor physiological action in the body.
9. Teaching and Learning Strategies	
Strategy	1- The student interacts during the lecture. 2 - The student listens attentively to an explanation. 3 - The student interacts and participates in extra-curricular activities. 4 - The student learns to behave professionally. 5 - General and Transferable Skills (other skills relevant to employability and personal development) 6. Enabling the student to pass interviews and succeed in the labor market 7 - Enabling the student to develop himself after graduation 8 - The assessment include one mid examinations and final examination addition to assignment and quiz also a home works and reports.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	4hours	**Introduction to animal physiology**	**Introduction physiology**	Smart screen	**Daily and monthly exams**
2	4hours	**Types of tubes used in lab**	**Integumentary System**	Smart screen	**Daily and monthly exams**
3	4hours	**Blood group test**	**Nervous system**	Smart screen	**Daily and monthly exams**
4	4hours	**Hb measurement**	**Cardiovascular system**	Smart screen	**Daily and monthly exams**
5	4hours	**WBC Count test**	**Blood cells**	Smart screen	**Daily and monthly exams**
6	4hours	**RBC Count test**	**Respiratory system**	Smart screen	**Daily monthly exams**
7	4hours	**Mid-term Exam Unit-Step Forc Forced Response, RLC Circuit**	**Mid-term Exam + Ur Step Forcing, Forc Response, the RLC Circ**	Smart screen	**Daily monthly exams**
8	4hours	Differential WBC count test	**Digestive system**	Smart screen	**Daily monthly exams**
9	4hours	Platelets count test	**Urinary system**	Smart screen	**Daily monthly exams**
10	4hours	Coagulation test	**Male reproductive sys.**	Smart screen	**Daily monthly exams**
11	4hours	Erythrocyte sedimentation rate test	**Female reproductive sys.**	Smart screen	**Daily monthly exams**

12	4hours	**Blood pressure te**	**Skeletal system**	Smart screen	**Daily monthly exams**
13	4hours	**Determination blood glucose test**	**Muscular system**	Smart screen	**Daily monthly exams**
14	4hours	**The respirat system function**	**Endocrinology 1**	Smart screen	**Daily monthly exams**
15	4hours	**Pregnant test**	**Endocrinology 2**	Smart screen	**Daily monthly exams**

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 (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	**Medical physiology , Gunstream's Anatomy & Physiology** **Biology journals, medical journal**
Electronic References, Websites	