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

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.

1

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.

<u>Course Description</u>: 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.

<u>Program Vision</u>: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

<u>Program Mission</u>: 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.

<u>**Curriculum Structure**</u>: 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.

<u>Teaching and learning strategies</u>: 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.

3

Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University Faculty/Institute: College of Health and Medical Techniques Scientific Department: Medical Laboratory Techniques Academic or Professional Program Name: Medical Laboratory Techniques Final Certificate Name: Medical Laboratory Techniques Academic System: Course and Yearly Description Preparation Date: 27/2/2024 File Completion Date: 27/2/2024

Signature: Head of Department Name: Signature: 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

The Department of Medical Laboratory Technologies is responsible for the main reason that society needs professional medical personnel for a variety of public health and educational institutions. In addition, sports athlete to invest the skills of professors and demand in applied scientific research and learning. Likewise, there is less training and a broad understanding of technical knowledge through specialized medical laboratories to suit development in the world of pathological analysis techniques.

2. Program Mission

The Medical Laboratory Technology Department came to meet the needs of health institutions for professional cadres who have acquired skills and experience according to scientific and academic standards, by training these cadres to work in these institutions, as well as supporting the private sector in this regard. Developing teaching and student cadres in the fields of medical sciences and cognitive research, and striving to create postgraduate courses that prioritize the scientific balance of the department and other institutions, which works to consolidate the vision of scientific cooperation with other institutions, corresponding scientific departments and related institutions to achieve dedication in the fields of advanced science and technology.

3. Program Objectives

The department seeks to achieve the following goals:-

1. Graduates acquire basic knowledge and skills in the fields of medical laboratory analytical techniques.

2. Selecting and preparing the materials required to conduct pathological analyses.

3. Use laboratory equipment with scientific and practical skills.

4. Identifying the causes of disease, whether these causes are bacterial, parasitic, fungal or viral, and acquiring the ability to investigate them.

5. Diagnosing genetic diseases and distinguishing them from acquired diseases.

6. Dealing with infectious and communicable disease cases and how to prevent them inside the laboratory by implementing occupational safety guidelines.

7. Familiarity with the human aspects of the patient, which is an important part of treatment.

4. **Program Accreditation**

A detailed study was submitted to obtain accreditation, including a self-evaluation report, improvement plan, and conformity report.

5. Other external influences

Al-Furat Al-Awsat Technical University.

6. Program Structure								
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*				
Institution Requirements College Requirements	32	174	100%					
Department Requirements	32	174	100%					
Summer Training	2	Satisfied	100%					
Other								

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

Year/Level	Course Code	Course Name	Credit Hours				
The first stage, the			theoretical	practica			
first semester				-			
		General Chemistry	2	5			
		Human Bilogy	2	0			
		Instrumental	1	٣			
		Analysis					
		Terminology	۲	-			
		Applied Computer	١	۲			
		Human right and	۲	-			
		democracy					
		English	3	-			
		Medical ethics	2	-			
The First stage, second semester		General Chemistry	۲	0			
		Anatomy	۲	0			
		Human Bilogy	۲	0			
		Instrumental	١	٣			
		Analysis					
		Applied Computer	١	۲			
		Human right and	-	۲			
		democracy					
		Arabic	2	-			
The second Stage,		Medical	۲	ź			
First semester		Bacteriology					
		Clinical	۲	٤			
		Biochemistry					
		Human Physiology	۲	۲			
		Histology	۲	۲			
		Molecular Biology	۲	£			
		Medical	۲	ź			
		Parasitology					
Second stage, second semster		Clinical chemistry	۲	٤			
		Physology	۲	۲			

	1 1	1		
	Molecular E		٤	
	Parasitolog	y and ^Y	ź	
	Insects			
	Biostastisti	c 1	2	
	Histology	2	4	
Third Stage	Histopatho	logy ^Y	٣	
	Hematolog	У Ч	٤	
	Virology an	nd Y	4	
	МусоІоду			
	Clinical Ch	emistry ^۲	4	
	Genetics	۲	٣	
	Advanced	۲	۲	
	Biotechnol	ogy		
	Applied co	mputer ¹	۲	
Fourth Stage	Clinical	۲	٤	
	Immunolog	у		
	Diagnostic	۲	٤	
	Bacterilogy	,		
	Advenced	Clinical ^Y	٤	
	Chemistry			
	Medical	۲	٤	
	Parasitolog	у		
	Heamatolog	۲ ۲	2	
	Histopatho		٣	
	Methodolgy	/ \		
	Blood trans	sfusion 1	2	
	Graduation		5	
	Research			
	1			

8. Expected learning outcomes of the program								
Knowledge	Knowledge							
Preparing cadres specialized in	Medical laboratory management in government hospitals and the							
laboratory analysis 1	private sector 1							

Skills	
Working on modern laboratory	The accuracy of the results expected from the devices used and
equipment 2	their verification 2
Ability to perform various	Work on completing various tests 3
laboratory tests for patients 3	
Ethics	
Preparing cadres specializing in	The ability to prepare graduates in the specialty of medical
medical laboratory technology	laboratory technologies
who hold a bachelor's degree	
4	
Preparing cadres specializing in	The ability to prepare researchers in the specialty of pathological
pathological analysis	analysis techniques
techniques who hold advanced	
degrees in the master's and	
doctoral programs 5	

9. Teaching and Learning Strategies

Blended education, which consists of in-person education, including classrooms with smart screens and specialized educational laboratories according to academic academic subjects, in addition to electronic communication with students for the purpose of assigning some assignments and instructions.

10. Evaluation methods

Implementing it in all stages of the program in general.

11. Faculty							
Faculty Members							
Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff			
	General	Special		Staff	Lecturer		

Dr. Angam Jasem Mohammed	Biology	Immunology	Professor	Staff	
Dr. Raad Ajam	Biology	Parasitology	Assistant Professor	Staff	
Dr. Abdul Sammed	Biology	Physiology	Professor	Staff	
Dr. Ali Mohammed Abed	Chemisty	Clinical Biochemistry	Assistant Professor	Staff	
Dr. Emaad Abass Elmulla	Chemistry	Organic Chemistry	Professor	Staff	
Dr. Alaa Hashim Abed Ali	Pathological Analysis	Science	Assistant Professor	Staff	
Dr. Zrahaa Hameed Oda	Pathological Analysis	Bacterilogy	Assistant Professor	Staff	
Razia Hussen Fadel	Pathological Analysis	Immunolgy	Assistant Professor	Staff	
Najat Mohammed Flaeeh	Pathological Analysis	Genetics	Lecturer	Staff	
Zahraa Abdul Alal	Biology	Physiology	Lecturer	Staff	
Fahad Dakel Fahad	Chemistry	Physical chemistry	Assistant lecturer	Staff	
Genan Kareem Esaa	Biology	Mycology	Assistant lecturer	Staff	
Doaa Abdull Zhraa Dalee	Biology	Physiology	Assistant lecturer	Staff	
Zahraa Hussen Kadium	Biology	Physiology	Assistant lecturer	Staff	
Dr. Roaa Kareem	Biology	Immunology	lecturer	Staff	
Dr. Roaa Mohammed	Biology	Bacteriology	Lecturer	Staff	
Hawraa Saeed	Chemistry	Inorganic Chemistry	Assistant lecturer	Staff	

Biology	Histology	Assistant	Staff	
		lecturer		
Chemistry	Biochemistry	Assistant	Staff	
		lecturer		
English	English	Assistant	Staff	
		lecturer		
Veterinary	Histology	Assistant	Staff	
Medicine		lecturer		
Biology	Bacteriology	Lecturer	Staff	
Chemisty	Inorganic	lecturer	Staff	
	chemistry			
Computer	computer	Assistant	Staff	
		lecturer		
Communecetion	Communecetion	lecturer	Staff	
Engering	Engering			
Veterinary	_	-	Staff	
Medicine				
Electerical	_	-	staff	
institute				
	Chemistry English Veterinary Medicine Biology Chemisty Computer Computer Computer Veterinary Medicine Electerical	ChemistryBiochemistryEnglishEnglishVeterinary MedicineHistologyBiologyBacteriologyChemistyInorganic chemistryComputercomputerCommunecetion EngeringCommunecetion EngeringVeterinary Medicine-Veterinary Medicine-Electerical-	Image: Construct of the	OIecturerIecturerChemistryBiochemistryAssistant lecturerStaffEnglishEnglishAssistant lecturerStaffVeterinary MedicineHistologyAssistant lecturerStaffBiologyBacteriologyLecturerStaffChemistyInorganic chemistryIecturerStaffComputercomputerAssistant lecturerStaffComputercomputerAssistant lecturerStaffComputercomputerAssistant lecturerStaffComputercomputerAssistant lecturerStaffComputercomputerAssistant lecturerStaffComputercomputerAssistant lecturerStaffEngeringInorganic chemistryIecturerStaffComputercomputerAssistant lecturerStaffEngeringIecturerStaffIecturerLettrinary MedicineStaffElectericalstaff

Professional Development

Mentoring new faculty members

- Adherence to official working hours.

- Adherence to the timings of lectures, exams, and the course of the educational process.
- Encouraging the completion of scientific research.
- Follow up on the progress of lectures and completion rates for lectures.
- Conduct a self-report assessment.

Professional development of faculty members

- Carrying out various scientific activities (seminars, courses, discussion groups, etc.).

- Participation in scientific conferences.

- Participation in scientific activities related to continuing education.

12. Acceptance Criterion

The admission plan for the Department of Medical Laboratory Technology is 100 morning students and 100 evening students.

13. The most important sources of information about the program

The official website of the college and university.

14. Program Development Plan

The strategic plan for developing the educational program is described by the department and members of the Scientific Committee.

			Pro	ogram	Skills	Outl	ine								
				Required program Learning outcomes											
Year/Level	el Course Course Code Name	Basic or	Knov	vledge			Skills				Ethics				
		opti	optional	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	С3	C4
			General	A1											
			Chemistry												
			Human Bilogy	A1											
			Instrumental	A1											
			Analysis												
			Terminology	A1											
			Applied	A1											
			Computer												
			Human right	A1											
			and												
			democracy												
			English	A1											

	Medical ethics	A1						
The First stage, second semester	General Chemistry	A1						
	Anatomy	A1						
	Human Bilogy	A1						
	Instrumental Analysis	A1						
	Applied Computer	A1						
	Human right and democracy	A1						
	Arabic	A1						
The second Stage, First	Medical Bacteriology	A1				<u> </u>		

semester							
	Clinical						
	Biochemistry						
	Human						
	Physiology						
	Histology						
	Molecular						
	Biology						
	Medical						
	Parasitology						
Second stage, second semster	Clinical chemistry						
	Physology						
	Molecular						

	Biology
	Parasitology
	and Insects
	Biostastistic
	Histology
Third Stage	Histopathology
	Hematology
	Virology and
	Mycology
	Clinical Clinical
	Chemistry
	Genetics Genetics
	Advanced Advanced
	Biotechnology
	Applied

	computer	
Fourth Stage	Clinical Immunology	
	Diagnostic Bacterilogy	
	Advenced	
	Clinical Chemistry	
	Medical Parasitology	
	Heamatology	
	Histopathology	
	Methodolgy	
	Blood transfusion	

	Graduation						
	Research						

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

