

Ministry of Higher Education and Scientific Research Supervision and evaluation device Department of Quality Assurance and Academic Accreditation

**Accreditation Department** 



2024

# Introduction

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

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire

based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates 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, M. 3/ 2906 on 3/5/2023 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

#### **Concepts and terminology**

Description of the academic program: The description of the academic program 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 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 <u>Program Vision:</u> An ambitious picture for the future of the academic program to be a .developed, inspiring, motivating, realistic and applicable programme 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

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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 ministry requirement), a university college, and a scientific department with multiple .study units

<u>Learning outcomes:</u> A consistent set of knowledge, skills, and values that the student has acquired after successfully completing the academic program. The learning outcomes for each course must be determined in a way that achieves the program's .objectives

<u>Teaching and learning strategies</u>: 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 objectives, that is, they describe all curricular and extracurricular .activities to achieve the learning outcomes of the program

# Academic program description form

Name of the university :- Middle Technical University

:Mansour AI-- Medical Technical Institute -Scientific Department

Department :- Forensic Evidence Techniques

Name of the academic or professional program: Forensic Diploma Name of final . certificate: Technical Diploma in Forensic Techniques

Academic system: annual	
Description preparation date: 20/5/2024	
Date of filling the file: 20/5/2024	
Signature: Signature	
Name of department head Dr. Batoul Abdul Jabbar Hussein Name of Scientific Assistant Eng. Dr . Abd-el-Kader	
Date: Date	
Check the file before	
Division of Quality Assurance and University	

Authentication of the Dean

Program vision-1

The graduate will be qualified to work in governmental and private institutions using

.high technologies

Program message -2 .

This academic program description provides a necessary summary of the most important characteristics of the program and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available opportunities.

.It is accompanied by a description of each course within the program

## Program objectives -3

Preparing qualified technical personnel to work in the areas of collecting forensic evidence samples and examining them in specialized technical laboratories located in government institutions, including the Ministry of Health and the Ministry of Interior, in .addition to the possibility of working in private sector institutions in this field

Program accreditation -4

**Government accreditation** 

Other external influences -5

Program structure -6								
*Notes	Percentage	Unit of study	Number of	Program structure				
			courses					
				Enterprise				
				requirements				
				College requirements				
				Department				
				requirements				
				summer training				
				Other				

Program description -7

Credit hours		Name of the course or	Course or	Year/level
		course	course code	
Practical	Theory	Biology 1		First
3	2			
			Expected learnin	ng-8
			outcomes of the	program
			Knowledge	
			Learning	Statement of
			outcomes 1	learning
				outcomes 1
			Skills	
			Learning	Statement of
			outcomes 2	learning
				outcomes 2
			Learning	Statement of
			outcomes 3	learning
				outcomes 3
			Value	
			Learning	Statement of
			outcomes 4	learning
				outcomes 4
		Learning outcomes 5	Learning	Statement of
			outcomes 5	learning
				outcomes 5

Teaching and learning strategies-9

In-person (traditional) education, e-learning using the Power Point method, using the

-:smart board and the following applications

Classroom-1

Google meet-2

You tube-3

.Free conference-4

**Evaluation methods-10** 

.Oral and written tests-1

Semester and final exams and daily evaluation-2.

The teaching staff-11									
Faculty members									
preparati teachin	eparation of the special specialization teaching staff requirements/skills ((if any		cialization	Academi c rank					
lecturer	angel		private	Public					
	~	thirty years of experience	Biotechnolo gy	Genetic Engineering &Biotechnology	Assistan t Professo r				

Professional development

.Orienting new faculty members-1

Attending with them and giving them advice on how to manage the classroom and -2 .compose exam questions

Professional development for faculty members

Attending conferences, development courses in the specialty, seminars and scientific .workshops

Acceptance criterion-12

Central admission / scientific / biological branc-1 .

GPA + student's interest in the scientific department-2.

The most important sources of information about the program-13

.Vocabulary determined by the Deans' Committee in the scientific specialty-1

Teaching lectures from scientific sources and the Internet-2.

Program development plan-14

Every year, vocabulary is added and modified according to scientific developments in-1 .the field of specialization

The curricula were updated this year to keep pace with scientific development in the-2 .corresponding universities

Program skills o									hart						
Learning outcomes required from the programme															
		Value			s	kull			Kr	now	ledge	Eccontial	Course	Cours	Voor
С	С	C2	C1	B4	B3	B2	B1	Α	Α	Α	A1	or optional	Namo	е	/level
4	3							4	3	2		or optional	Humo	Code	
se ns	tr ai	sincer itv	honesty	speed	skill	Rescu e	techni	$\checkmark$	V		passing	Essential (E	Biology(1		
e	ni	,				Ū	que				the				First
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## Course description form

(Course Name // Life Sciences (1-1

//Course code -2

Semester/year/First/ first year-3

The date this description was prepared // 20/5/2024-4

Available forms of attendance // classroom / laboratories-5

Number of study hours (total) / Number of units (total) Number of hours (5) hours-6 Number of study units (5) units

Name of the course administrator-7

Mohammed Rafeeq Ali E-mail mohammed-rafeeq@mtu.edu.iq

**Course objectives -8** 

-: By the end of this course the student will be able to

.Introduction to biological safety ,biological hazard ,risk of biological hazard-1

Know the basic principle of cell & structure, cell division, Genetics, as well as types-2

.& structure of selected pathogenic organisms

Know & understand the gross anatomy of different organs & the human body and-3 .their general function

Teaching and learning strategies -9

Preparing intermediate staff who specialize in forensic evidence by obtaining a degree in the specialty of forensic evidence, through which they can work in hospitals and -:forensic medicine. As for the nature of work in this field, it is as follows Collecting forensic evidence and examining it in specialized technical laboratories-1 located in government institutions, including the Ministry of Health and the Ministry of Interior, in addition to the possibility of working in private sector institutions in this .field

Working in specialized forensic medicine laboratories and searching mass graves to-2 extract bones for the purpose of DNA testing and the return of unidentified bodies to .their families after comparison

Course structure -10								
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	wee k			
Discussion Intervention s with directed questions	Lecture PowerPoint presentation	what is the meaning-1 .of biological safety examples of-2 .biological safety Biosafety Levels-3 ((BSL What are Biological-4 . Hazards and Type	Knowledge of biological risks and their types in laboratories	2 theoretical + 3 practical	1			
Oral self-tests And discussion	Lecture presentation power point Practical training (onion cells (experiment	.Cell and cell theory-1 Eukaryotic and-2 .Prokaryotic cells .Cell Structure-3	Distinguish between cell types and structures	2 theoretical + 3 practical	2			
Discussion	Lecture, power point presentation, practical training in the laboratory ((experiment Show a movie	Cell -1. organelles Structure-2 .and Function Mitotic Cell -3 .Division	Learn about cell organelles and their importance, as well as understand how cells divide	2 theoretical + 3 practical	3			

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Oral self-tests And discussion	Lecture Presentation Power Point Practical training in the laboratory (Experiment of extracting DNA (from strawberries	DNA,RNA -1 .Structure & function DNA Replication& -2 Transcription	Learns what DNA and RNA are and their function in the cell as well as DNA replication	2 theoretical + 3 practical	4
Oral examination and .discussion	Lecture, power point presentation, practical laboratory training .on the skeleton	.Human Anatomy -1 a-Head &Neck.	He learns anatomy because he will practice it in forensic medicine briefly (head .(and neck	2 theoretical + 3 practical	5
Written pre-test, oral self-tests and discussion	Lecture, power point presentation, practical training in the laboratory on the skeleton with a movie	b- Skull	The skull, its parts and components	2 theoretical + 3 practical	6
Oral examination and discussion	Lecture, power point presentation, practical laboratory training on the skeleton	c- Brain	The brain and its parts	2 theoretical + 3 practical	7
Oral and written examination and .discussion	Lecture, power point presentation, practical training in the laboratory on the skeleton with a .film	Anatomy of chest (( Thorax	Recognizes the chest area and its divisions	2 theoretical + 3 practical	8
Oral and written examination and discussion	Lecture, power point presentation, practical training in the laboratory on the skeleton with a movie	Cervical Vertebrae ((C.V Thoracic vertebrae	Distinguish between the cervical and thoracic vertebrae	2 theoretical + 3 practical	9
Oral exam And discussion	Lecture, power point presentation, practical training in the laboratory on the skeleton with a movie	Sternum Ribs Pleura Lungs	Recognizes the locations of the sternum, pleura, and lung and their damage	2 theoretical + 3 practical	10

Written test	Lecture, power point presentation, practical training in the laboratory on the skeleton with a movie	Abdomen	learns the division of the abdominal regions and the location of the organs in each part	2 theoretical + 3 practical	11
Discussion written test	Lecture, power point presentation, presentation of an illustrative film	Anatomy of Urinary (Tract ( UT	Learns the parts of the urinary system	2 theoretical + 3 practical	12
Discussion	Lecture, power point presentation, practical training in the laboratory on the skeleton with a movie	Anatomy of Upper limbs	Learns the main parts of the upper limbs and their names	2 theoretical + 3 practical	13
Self-test	Lecture, power point presentation, practical training in the laboratory on the skeleton with a movie	Anatomy Lower limbs	Learns the main parts of the lower limbs and their names	2 theoretical + 3 practical	14
Discussion	Lecture, power point presentation, practical training, making blood slides and viewing ready-made slides	HLA = Human Leukocyte Antigen	Differentiate between the three types of human leukocyte antigens	2 theoretical + 3 practical	15

Course evaluation -11	
Oral exams, written exams, interrogations, final exams, and dail	ly evaluation
Learning and teaching resources-12	
Educational bag	Required textbooks (methodology, if (any Main references
	((sources
The Skull-1 Centers for Disease Control and Prevention (US). Injury prevention and control: traumatic brain injury [Internet]. Atlanta, GA; [cited 2013 Mar 18]. Available from: http://www.cdc.gov/traumaticbraininjury/statistics.html. Organs and Structures of the Respiratory System Bizzintino J, Lee WM, Laing IA, Vang F, Pappas T, Zhang G, Martin AC, Khoo SK, Cox DW, Geelhoed GC, et al. Association between human rhinovirus C and severity of acute asthma in children. Eur .(Respir J (Internet The Small and Large Intestines -3 American Cancer Society (US). Cancer facts and figures: colorectal cancer: 2011–2013 [Internet]. c2013 [cited 2013 Apr 3]. Available from: http://www.cancer.org/Research/CancerFactsFigures/ColorectalCanc .erFactsFigures/colorectal-cancer-facts-figures-2011-2013-page The Urinary System and Homeostasis 4 Bagul A, Frost JH, Drage M. Stem cells and their role in renal ischaemia reperfusion injury. Am J Nephrol [Internet]. 2013 [cited 2013 Apr 15]; 37(1):16–29	Recommended supporting books and references (scientific journals, (reports
websites	Electronic references, Internet
	sites