

**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: ... Alkitab University.....

Faculty/Institute: ... Medical Technology College.....

Scientific Department: .. Optical Techniques.....

Academic or Professional Program Name: ... Optometry.....

Final Certificate Name: ... Bachelors of Optical Techniques.....

Academic System: ... courses and yearly.....

Description Preparation Date: 7/4/2024

File Completion Date: 7/4/2024



Signature:

Head of Department Name:

Prof. Dr. Ismail Khalil Jasem

Date:

14/4/2024

Signature:

Scientific Associate Name:

Date:



The file is checked by:

Department of Quality Assurance and University Performance

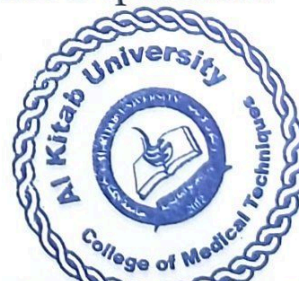
Director of the Quality Assurance and University Performance Department:

Date: 14/4/2024

Signature:

الدكتور

أحمد عازن البراكيم



Approval of the Dean

1. Program Vision

The Department of Optical Technologies at the College of Medical Technology aspires to become a department with a prominent scientific standing in the local and international academic and scientific communities. It also aims to play an effective and influential applied role in the technical and health fields, meeting the needs of society and the requirements of the labor market.

2. Program Mission

Graduates acquire both theoretical and practical skills through their studies inside and outside the university, as well as in hospitals and specialized centers. The department utilizes all available resources to achieve excellence in education, research, and patient care. Graduates contribute to the provision of ophthalmic services and medical care throughout Iraq, in accordance with ethical and professional traditions and values.

3. Program Objectives

The Department of Optometry aims to graduate specialized civilian staff to work in hospitals, optometry centers and private clinics.

A graduate of the Department of Optometry should be able to check eyesight.

A graduate of the Department of Optometry will be able to determine the degree of vision and correct strabismus.

A graduate of the Department of Optometry should be able to fit lenses for eyeglasses and use a computer in the operations of checking and correcting eyesight and repairing glasses.

4. Program Accreditation

N/A

5. Other external influences

N/A

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	11	26	28.2%	
College Requirements	9	37	23.0%	
Department Requirements	18	117	46.2%	
Summer Training	1	1	2.5%	
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
First year/First semester				
First year First semester	KU MT OPT 111	Anatomy of the head and neck	2	5
	KU MT OPT 112	Chemistry principles	2	4
	KU MT OPT 113	Medical and optical physics 1	3	5
	KU MT OPT 114	Biology 1	2	4
	KU MT OPT 115	Computer principles 1	1	2
	KU MT OPT 116	English Language	3	0
	KU MT OPT 117	Human Rights and democracy	1	0
First year/Second semester				

First year	KU MT OPT 121	Anatomy of the eye	2	5
Second semester	KU MT OPT 122	Biochemistry	2	4
	KU MT OPT 123	Medical and optical physics 2	3	5
	KU MT OPT 124	Biology 2	2	5
	KU MT OPT 125	Computer principles 2	1	2
	KU MT OPT 126	Arabic Language	2	0
	KU MT OPT 127	Crimes of the defunct Baath party	1	0
	Second year/First semester			
Second year First semester	KU MT OPT 211	Physiology of the eye 1	2	4
	KU MT OPT 212	Optical equipment 1	2	5
	KU MT OPT 213	Eye health 1	2	4
	KU MT OPT 214	Refractive errors 1	2	5
	KU MT OPT 215	Statistical applications 1	1	3
	KU MT OPT 216	Medical terminology	2	0
Second year/2nd semester				
Second year Second semester	KU MT OPT 221	Physiology of the eye 2	2	4
	KU MT OPT 222	Optical equipment 2	2	5
	KU MT OPT 223	Eye health 2	2	4
	KU MT OPT 224	Refractive errors 2	2	5
	KU MT OPT 225	Statistical applications 2	1	3
	KU MT OPT 226	pharmacology	2	0
	KU MT OPT 227	Laser in ophthalmology	1	3
Third year				
Third year	KU MT OPT 3.1	Ocular manifestation	2	3
	KU MT OPT 3.2	Medical glasses	2	4
	KU MT OPT 3.3	Squint 1	2	3
	KU MT OPT 3.4	Refraction errors 3	2	4
	KU MT OPT 3.5	Methodology	2	0
	KU MT OPT 3.6	Computer application	1	2
	KU MT OPT 3.7	Optical instruments	1	2
Fourth year				
Fourth year	KU MT OPT 4.1	Diseases of the eye	2	2

	KU MT OPT 4.2	Squint 2	2	4
	KU MT OPT 4.3	Pediatric Ophthalmology	1	2
	KU MT OPT 4.4	Glasses and contact lens	2	2
	KU MT OPT 4.5	Ocular prosthesis	2	4
	KU MT OPT 4.6	x-ray and Ultra sound of Eye	2	2
	KU MT OPT 4.7	Workshop of optometry tech.	0	4
	KU MT OPT 4.8	Graduation project	0	0

8. Expected learning outcomes of the program

Knowledge	
<p>1- Knowledge and complete familiarity with the basics of optics techniques and the sciences on which vision examination and correction is based.</p> <p>2- Organizing and perceiving cognitive information in preparation for its functional use.</p> <p>3- Work to solve problems intellectually according to the available data.</p> <p>4- Continuing to think and create according to scientific and intellectual data.</p>	Learning Outcomes Statement 1
Skills	
<p>1 - Applying the information and putting it into practice in hospitals and optometry centers.</p> <p>2 - the student be able to use and maintain laboratory equipment for optics techniques.</p>	Learning Outcomes Statement 2

Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
The use of current advanced means to connect the lectures materials to the student via the recent lectures from international universities.	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

- Explanation and clarification through lectures
 - The method of displaying scientific materials on data show devices, smart boards.
 - Self-education by preparing reports in laboratories of disease cases
1. Active participation in the classroom is evidence of student commitment and responsibility.
 2. Semester and final exams express commitment and cognitive and skill achievement.
 3. Commitment to the deadline specified in preparing the required duties and reports.

10. Evaluation methods

1. Short Exams
2. Semester and final exams for practical and theoretical subjects
3. Interaction in the lecture hall
4. Reports
5. Graduation projects
6. summer training
7. homework

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer
Professor	1			1	
Assistant professor	2			1	1
Teacher	5	2		4	3
Assistant teacher	4	2		3	3

Professional Development

Mentoring new faculty members

- 1- Adopting practical workshops to increase teaching skills in scientific and educational aspects.
- 2- Using modern means to search for new scientific information (scientific and medical websites).
- 3- Participation in scientific seminars and conferences to learn about the most important developments in the field of laboratories.

Professional development of faculty members

1. Involve teachers in courses that help in building a supportive organizational culture.
2. Utilize advanced scientific and educational techniques and encourage teachers to attend training programs.
3. Encourage teachers to participate in scientific courses.
4. Encourage teachers to partake in the college's scientific conferences.
5. Develop a sustainable program for organizing scientific seminars in the department.

6. Organize research and discussion sessions.

12. Acceptance Criterion

According to the controls specified by the Ministry of Higher Education through admissioncentral

13. The most important sources of information about the program

- 1– Ministry of Higher Education and Scientific Research
- 2– University Registration Directorate
- 3– Department management
- 4 – The college’s official website on the International Information Network Internet

14. Program Development Plan

- 1– Holding introductory seminars about the program.
- 2– Holding professional development courses for department departments.
- 3– Vocational training in government or private laboratories recognized by health departments.

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
First year First semester	KU MT OPT 111	Anatomy of the head and neck	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 112	Chemistry principles	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 113	Medical and optical physics 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 114	Biology 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 115	Computer principles 1	Optional	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 116	English Language	Optional	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 117	Human Rights and democracy	Optional	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 121	Anatomy of the eye	Basic	✓	✓	✓	✓	✓	✓	✓	✓				

First year	KU MT OPT 122	Biochemistry	Basic	✓	✓	✓	✓	✓	✓	✓	✓					
Second semester	KU MT OPT 123	Medical and optical physics 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓					
	KU MT OPT 124	Biology 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓					
	KU MT OPT 125	Computer principles 2	Optional	✓	✓	✓	✓	✓	✓	✓	✓					
	KU MT OPT 126	Arabic Language	Optional	✓	✓	✓	✓	✓	✓	✓	✓					
	KU MT OPT 127	Crimes of the defunct Baath party	optional	✓	✓	✓	✓	✓	✓	✓	✓					
	Second year	First semester	KU MT OPT 211	Physiology of the eye 1	Basic	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 212			Optical equipment 1	Basic	✓	✓	✓	✓	✓	✓	✓					
KU MT OPT 213			Eye health 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 214			Refractive errors 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 215			Statistical applications 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 216			Medical terminology	basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 221			Physiology of the eye 2													

Second year Second semester	KU MT OPT 222	Optical equipment 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 223	Eye health 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 224	Refractive errors 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 225	Statistical applications 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 226	pharmacology	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 227	Laser in ophthalmology	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	Third year	KU MT OPT 3.1	Ocular manifestation	Basic	✓	✓	✓	✓	✓	✓	✓	✓			
KU MT OPT 3.2		Medical glasses	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 3.3		Squint 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 3.4		Refraction errors 3	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 3.5		Methodology	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 3.6		Computer application	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
KU MT OPT 3.7		Optical instruments	basic	✓	✓	✓	✓	✓	✓	✓	✓				

Fourth year	KU MT OPT 4.1	Diseases of the eye	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 4.2	Squint 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 4.3	Pediatric Ophthalmology	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 4.4	Glasses and contact lens	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 4.5	Ocular prosthesis	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 4.6	x-ray and Ultra sound of Eye	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 4.7	Workshop of optometry tech.	Basic	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 4.8	Graduation project	Basic	✓	✓	✓	✓	✓	✓	✓	✓				

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

