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

2025

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-Kitab 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: 15/2/2025

File Completion Date: 15/2/2025

Signature:

Head of Department Name:

Date: 2/3/2025

Signature:

Scientific Associate Name: Dr. Sahil K. Al-Jamil

Date: 2/3/2025

The file is checked by: Dr. Radha Amer S.

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 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**	
First year/First semester			**theoretical**	**Practical**
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**	2	2
	KU MT OPT 116	**English Language**	2	0
	KU MT OPT 117	**Human Rights and democracy**	2	0
First year/Second semester				

First year Second semester	**KU MT OPT 121**	**Anatomy of the eye**	2	5
	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	4
	KU MT OPT 125	**Arabic Language**	2	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
	KU MT OPT 217	**Crimes of the defunct Baath party**	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
	KU MT OPT 228	**English language**	2	0
	KU MT OPT 229	**Arabic language**	2	0
	KU MT OPT 230	**Computer applications**	2	2
Third year/1st semester				
Third year First semester	**KU MT OPT 311**	**Ocular manifestation of system disease 1**	1	3
	KU MT OPT 312	**Prescription eye glasses 1**	2	4
	KU MT OPT 313	**Squint 1**	2	4

	KU MT OPT 314	Refraction errors 3	2	4
	KU MT OPT 315	Optical equipment 3	2	4
	KU MT OPT 316	Treatment of ocular disease by laser	1	2
	KU MT OPT 317	Computer applications 1	1	2
Third year/2nd semester				
Third year second semester				
	KU MT OPT 321	Ocular manifestation of system disease 2	1	3
	KU MT OPT 322	Spectacles medical 2	2	4
	KU MT OPT 323	Squint 2	1	4
	KU MT OPT 324	Refractive errors 4	2	4
	KU MT OPT 325	Optical equipment 4	2	4
	KU MT OPT 326	Computer Applications 2	1	2
	KU MT OPT 327	Research methodology	2	0
Fourth year				
Fourth year	KU MT OPT 4.1	Diseases of the eye	4	4
	KU MT OPT 4.2	Squint 2	4	8
	KU MT OPT 4.3	Pediatric Ophthalmology	2	4
	KU MT OPT 4.4	Glasses and contact lens	4	8
	KU MT OPT 4.5	Ocular prosthesis	4	8
	KU MT OPT 4.6	X-ray and Ultra sound of eye	4	4
	KU MT OPT 4.7	Workshop of optometry tech.	0	8
	KU MT OPT 4.8	Graduation project	0	6

8. Expected learning outcomes of the program	
Knowledge	
١- Knowledge and complete familiarity with the basics of optics techniques and the sciences on which vision examination and correction is based. ٢- Organizing and perceiving cognitive information in preparation for its functional use. ٣- Work to solve problems intellectually according to the available data. ٤- Continuing to think and create according to scientific and intellectual data.	Learning Outcomes Statement 1
Skills	
١ - Applying the information and putting it into practice in hospitals and optometry centers. ٢ - the student be able to use and maintain laboratory equipment for optics techniques.	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

١. Active participation in the classroom is evidence of student commitment and responsibility.

٢. Semester and final exams express commitment and cognitive and skill achievement.

٣. Commitment to the deadline specified in preparing the required duties and reports.

10. Evaluation methods

١. Short Exams

٢. Semester and final exams for practical and theoretical subjects

٣. Interaction in the lecture hall

٤. Reports

٥. Graduation projects

٦. summer training

٧. 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	3				2	1
Teacher	5	5			5	5
Assistant teacher	4				1	3

Professional Development

Mentoring new faculty members

١- Adopting practical workshops to increase teaching skills in scientific and educational aspects.

٢- Using modern means to search for new scientific information (scientific and medical websites).

٣- Participation in scientific seminars and conferences to learn about the most important developments in the field of laboratories.

Professional development of faculty members

١. Involve teachers in courses that help in building a supportive organizational culture.

٢. Utilize advanced scientific and educational techniques and encourage teachers to attend training programs.

٣. Encourage teachers to participate in scientific courses.

٤. Encourage teachers to partake in the college's scientific conferences.

٥. 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

١- Ministry of Higher Education and Scientific Research

٢- University Registration Directorate

٣- Department management

4 – The college's official website on the International Information Network Internet

14. Program Development Plan

١- Holding introductory seminars about the program.

٢- Holding professional development courses for department departments.

٣- 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	✓	✓	✓	✓	✓	✓	✓	✓				
First year Second semester	KU MT OPT 121	Anatomy of the eye	Basic	✓	✓	✓	✓	✓	✓	✓	✓				

	KU MT OPT 122	**Biochemistry**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 123	**Medical and optical physics 2**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 124	**Biology 2**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 125	**Arabic Language**	**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 217	**Crimes of the defunct baath party**	**Optional**												
Second year **Second semester**	**KU MT OPT** 221	**Physiology of the eye 2**													

	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**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 228	**English language**	**Optional**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 229	**Arabic language**	**Optional**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 230	**Computer applications**	**Optional**	✓	✓	✓	✓	✓	✓	✓	✓				
Third year First semester	**KU MT OPT** 311	**Ocular Manifestation of system disease 1**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 312	**Prescription eye glasses 1**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 313	**Squint 1**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 314	**Refraction errors 3**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				

	KU MT OPT 315	**Optical equipment 3**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 316	**Treatment of ocular disease by laser**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 317	**Computer applications**	**basic**	✓	✓	✓	✓	✓	✓	✓	✓				
Third year Second semester	**KU MT OPT** 321	**Ocular Manifestation of system disease 2**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 322	**Spectacles medical 2**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 323	**Squint 2**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 324	**Refraction errors 4**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 325	**Optical equipment 4**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 326	**Computer applications 2**	**Basic**	✓	✓	✓	✓	✓	✓	✓	✓				
	KU MT OPT 327	**Research methodology**	**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.**