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 Noor university college- Iraq

Faculty/Institute: .....

Scientific Department: Optical. Technique

Academic or Professional Program Name: B.Sc. Optical technique

Final Certificate Name: B.Sc. Optical Technique

Academic System: Courses + annual

Description Preparation Date: 20-2-2024

File Completion Date: 25-2-2024

Signature:

Head of Department Name:

Date: 25/2/2024

Signature:

Scientific Associate Name: Prof. Dr. Samir Khalaf Abdullah

Date: 3.4.2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department: Dr. Nadhim allawi alshiri

Date:

Signature:

Approval of the Dean

Yassen Al-Hajjar

1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

An essential part of an individual's effectiveness in society is to see correctly to create efficiently, and then to perform his role as society needs him. If a person sees it, it means that he can develop his abilities to achieve more service in his work environment. Here, optical technologies see their way to play their role and meet the needs of society.

2. Program Mission

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

Empowering visual technology personnel to encourage the visually impaired to interact in society by restoring the safety and effectiveness of their vision. The mission of optical technologies is to reduce damage and address defects.

3. Program Objectives

General statements describing what the program or institution intends to achieve.

Optical technologies aim to prepare capable personnel who understand their work, are intelligent in diagnosis, and are able to innovate and solve to work in the fields of vision correction, determining the degree of vision, correcting strabismus, proposing lenses, and manufacturing alternatives.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

Yes, from the Ministry of higher Education and scientific Research.

5. Other external influences

Is there a sponsor for the program?

No

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	3	5		
College Requirements	7	23		
Department Requirements	27	153		
Summer Training	2			
Other				
		181		

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
First year Course1+course2			theoretical	practical
		Chemistry principles(1+2)	4	4
		Medical and optical physics(1+2)	4	4
		Anatomy of the head and neck1	2	2
		Anatomy of eye 2	2	2
		Biology (1+2)	4	4
		Human rights and Democracy1	2	
		Computer principles(1+2)	4	4
		English language1	2	
		Arabic language1	2	
Second year(1+2)		Optical instruments(1+2)	4	4
		Physiology of the eye & vision (1+2)	4	4

		Eye health (1+2)	4	4
		Refractive errors (1+2)	4	4
		Statistical application (1+2)	4	4
		Medical terminology 1	2	
		Pharmacology2	2	
		Laser in ophthalmology2	2	
Third year		Squint 2	2	2
		Refraction errors 2	2	2
		Ocular manifestation of systemic and neurological diseases 2	2	2
		X-ray and ultrasound of the eye 2	2	2
		Diseases of the eye 2	2	2
		Research methodology 2	2	
		English language 2	2	
		Computer applications 2	2	2
Fourth year		Squint 2	2	2
		Glasses and contact lenses 2	2	2
		Pediatric ophthalmology 2	2	2
		Work shop of optical technique 2		2
		Diseases of the eye 2	2	2
		Ocular prosthesis 2	2	2

		English language 2	**2**	
		Project 2		**5**

8. Expected learning outcomes of the program

Knowledge

1-Teaching students everything related to eye topics 2- Training the students in laboratories on how glasses work with measurements that correct eye condition that patient 3- how to use modern devices regarding eye examination.	1- Enables the student to use examination devices and measure eye ability. 2- The student is able to make glasses that fit the patient 3- Dealing well with the patient and giving sufficient time when asking questions to the patient

Skills

1- Use the devices available in specialized medical centers. 2- Allowing graduates of the department those appointed to institutions in their work	1- The graduate's knowledge of proficiency in making eyeglasses, as well as eye pressure measurements and photography of retina. 2- It was learned how to document information about the patient.
1- Study and solve retinal imaging eye 2- 2-Determine the ability or strength of the eye during measurements using a Snell's chart or through laser device 3- Help the patient relax, the purpose is for measurement's to be accurate	1- Match the manual measurements with the device measurements to get the best measurement 2- Writing a report on the patients vision and selecting the aproperate lens

Ethics

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

9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

1-Theoritical lectures in halls

2- Show movies

3-Conducting practical experiments in the laboratory

4- Visits to specialized medical centers

10. Evaluation methods

Implemented at all stages of the program in general.

1-Weekly reports for practical experiments

2- Periodic tests for theoretical subjects

3- Theoretical and practical semester exams

4- Theoretical and practical final exams

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Ismail Khalaf Abbas	PHYSICS	Solid state			✓	
Ebrahem Ahmed Abdullah	Biology	Parasites			✓	
Theiaa Najim Abdullah	Chemical	Analytical chemistry			✓	

Atallah Fahad Mekhlif	Biology	Zoology			✓	
Firas Hassan Awad	Chemistry	Analytical chemistry			✓	
Ahmed Mohammed Mahmood	Physic	Solid state			✓	
Imtithal Ali Mohammed	Phosphory of biochemistry				✓	
Braa Hazem Ali	chemistry	Analytical			✓	
Maha Mohammed Tawfiq	chemistry	Organic chemistry			✓	
Allyaa Natheer Ahmed	Biology	Microbiology			✓	
Haneen Badran Mohammed	Internal and preventive medicine	Veterinary pathological diagnostics			✓	
Safaa Mohammed Ibrahim	chemistry	Industrial chemistry			✓	
Nadia Khalid Mustafa	Biology	Microbiology			✓	
Amina Dawood Sliman	Chemistry	Analytical chemistry			✓	
Yamamah Abas Zedan	Biology	Molecular biology			✓	
Maha Abed alkarem	Veterinary medicine	Veterinary medicines and toxins			✓	
Israa Khalid Abdulfattah	Biology	Microbiology			✓	
Azzam Abdulqader Ahmed	General medicine and surgery	Doctorate in ophthalmology				✓
Zubaida Saad Alqazzaz	General medicine and surgery	Doctorate in ophthalmology				✓

Ali Saeed jarjis	General medicine and surgery	Doctorate in ophthalmology				✓
Salim Mahdi Salih	General medicine and surgery	Doctorate in ophthalmology				✓
Ayad Ahmed Thanoun	Technician					✓

Professional Development

Mentoring new faculty members

1- Teaching methods and validity examination course

2- Training courses with in the required specializations and subjects.

3- Participation of teachers in workshops, conference and seminars

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

1-Encouraging participation in various training courses, such as computer courses, Excel and word.

2- Encouraging participation in seminars, scientific meetings and conferences inside and outside the country.

3- Encouraging enrollment in e-learning courses.

4- Adopting annual evaluation through teaching, volunteer, student, and community service activities.

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

Central admission, according to instructions issued by the ministry of higher education and scientific research, specifying special admission rates in private colleges.

13. **The most important sources of information about the program**
State briefly the sources of information about the program. And this is done by 1–College registration division 2– Department management **4**– The colleges official website on the internet.

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
First year(course1 1+2)	1	Chemistry principle	Basic				✓			✓				✓	
	2	=	=				✓			✓				✓	
	1	Medical and optical physics	=				✓			✓				✓	
	2	=	=				✓			✓				✓	
	1	Biology	=				✓			✓				✓	
	2	=	=				✓			✓					✓
	1	Human rights and democracy	=												

	1	Anatomy of the head and neck	=				✓			✓				✓	
	2	Anatomy of the eye	=				✓			✓				✓	
	1	Computer principles	=				✓			✓				✓	
	2	Computer principle	=				✓			✓				✓	
	1	English language	=												✓
	2	Arabic language	=												
Second year(course1 +2)	1+2	Optical instrumen t	=												
	1+2	Physiolog y of the eye and vision	=												

	1+2	Eye health	=												
	1+2	Refractive errors	=												
	1+2	Statistical applications	=												
	1	Medical terminology	=												
	2	pharmacology	=												
	2	Laser in ophthalmology	=												
Third year		Squint1	=												
		Refraction errors2	=												
		Ocular manifestation of systemic	=												

		X-ray and ultrasound of the eye	=												
		Diseases of the eye 1	=												
		Research methodology	=												
		English language	=												
		Computer applications	=												
Forth year		Squint2													
		Glasses and contact lenses													

		Pediatric ophthalmology	=												
		Workshop of optical techniques	=												
		Diseases of the eye2	=												
		Ocular pr	=												
		English language	=												
		project	=												

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