Ministry of Higher Education and Scientific Research
Supervision and Scientific Evaluation Authority
Department of Quality Assurance and Academic Accreditation Division

Academic Program Description Manual

2024

academic Program Description Template

University Name: **Uruk Private University**

College / Faculty: College of Medical and Health Technologies-

Scientific Department: Department of Optical Techniques

Name of the Academic or Professional Program: Bachelor's Degree

Name of the Final Certificate: Bachelor in Optical Techniques

Study System: Semester-based + Annual

Date of Course Description Preparation:4/3/2024

Date of Form Completion:4/3/2024

Signature:
Deputy Dean Academic for Affairs:
Dr. Faiza Hazem Hassan
Date: 16/6/2025

Signature:
Name of Department Head: **Asst. Prof. Dr. Aqeel Hadi Taher**
Date: 16/6/2025

File Reviewed By:
Quality Assurance and University Performance Division
Director of the Quality Assurance and University Performance Division:
Dr. Hussein Arrak Majeed Azlubaidi
Date: 20-5-2025
Signature:

Approval of the Dean

Introduction:

The educational program is a coordinated and structured package of academic courses comprising procedures and experiences organized into curricular components. Its primary purpose is to develop and refine graduates' skills, making them qualified to meet the demands of the labor market. The program is reviewed and evaluated annually through internal or external auditing procedures and mechanisms, such as the External Examiner Program.

The academic program description provides a concise summary of the program's key features and its courses, outlining the competencies and skills the students are expected to acquire, which are aligned with the objectives of the academic program. This description is of particular importance as it forms the foundation for obtaining program accreditation. It is collaboratively written by the teaching staff under the supervision of the scientific committees within the academic departments.

This second edition of the guide includes an updated description of the academic program, reflecting revisions to the contents and components of the previous version in light of recent developments in Iraq's educational system. It includes descriptions in both traditional formats (annual and semester-based systems), as well as the unified academic program description adopted in accordance with the directive issued by the Directorate of Studies (Ref. T.M.3/2906 dated 03/05/2023), particularly for programs operating under the Bologna Process framework.

In this context, we emphasize the critical importance of preparing clear and accurate descriptions of academic programs and courses to ensure the effective implementation of the educational process.

Concepts and Terminology:

Academic Program Description:

The academic program description provides a concise summary of the program's

vision, mission, and objectives, including a precise articulation of the intended learning outcomes, aligned with specific teaching and learning strategies.

Course Description:

The course description offers a brief overview of the course's key features and the learning outcomes students are expected to achieve. It serves as evidence of whether students have made optimal use of available learning opportunities. Course descriptions are derived from the overarching program description.

Program Vision:

An aspirational and forward-looking depiction of the future of the academic program, presenting it as progressive, inspiring, motivating, realistic, and applicable.

Program Mission:

A brief statement outlining the objectives and activities required to achieve the program's goals, while also defining its developmental pathways and strategic direction.

Program Objectives:

Statements that describe what the academic program aims to accomplish within a specific timeframe. These objectives should be measurable and observable.

Curriculum Structure:

The complete set of courses/modules included in the academic program, according to the adopted system of study (semester-based, annual, or Bologna Process). This includes all mandatory requirements (as defined by the Ministry, University, College, and Department) along with the corresponding credit units.

Learning Outcomes:

A coherent set of knowledge, skills, and values acquired by the student upon successful completion of the academic program. Learning outcomes must be defined for each course in a way that supports the overall objectives of the program.

Teaching and Learning Strategies:

These are the strategies employed by faculty members to enhance student learning.

They are planned methods used to achieve learning objectives and describe both in-class and extracurricular activities designed to accomplish the program's intended learning outcomes.

1. Program Vision
The future vision of the Department of Optical Technologies is to be a leading and inspiring academic program characterized by high ambition and continuous development. The program aspires to foster creativity and innovation while remaining practical and applicable across various fields of optical technologies. It is designed to keep pace with rapid technological advancements and to contribute effectively and sustainably to shaping the future of the optical sector.

2. Program Mission
One of the main responsibilities of the department is to prepare highly trained professionals in the field of vision science, including the diagnosis of eye diseases and the fabrication of eyeglasses and contact lenses. Graduates are distinguished by a high level of knowledge and creativity in operating medical devices used in the examination and diagnosis of visual impairments. The program emphasizes alignment with internationally recognized medical standards for quality assurance and academic accreditation, as well as the ability to analyze results using biostatistical methods and medical software comparable to those employed in Iraqi universities.

3. Program Objectives

1. The Department of Optical Technologies aims to prepare specialized civilian personnel qualified to work in hospitals, vision testing centers, workshops, and private clinics.

2. Graduates of the Department will be capable of performing vision examinations.

3. Graduates will be able to assess visual acuity and diagnose and manage strabismus.

4. Graduates will be proficient in fitting lenses for prescription eyeglasses and utilizing computer systems relevant to the field.

5. Graduates will be qualified to prescribe corrective eyeglasses, contact lenses, and visual aids, and to participate in vision assessment, correction procedures, and eyeglass repair.

6. Graduates will be capable of maintaining and caring for medical and optical equipment.

4. Program Accreditation

A comprehensive study has been submitted to obtain accreditation, including a self-assessment report, an improvement plan, and a compliance report.

Program Accreditation
A comprehensive study has been submitted to obtain accreditation, including a self-assessment report, an improvement plan, and a compliance report.

5. Other External Influences
Laboratories, library, hospitals, and internet access.

6. Program Structure

Component	Number of Courses	Credit Units	Percentage	Remarks*
Institutional Requirements	54	194	%100	
College Requirements	6			
Department Requirements	54	194	%100	
Summer Training	2	fulfilled	%100	
Others				

*Remarks may include whether the course is core (compulsory) or elective

7. Program Description

Year/Level	Course Code	Course Title	Credit Hours	
			Theoretical	Practical
First Year	AHN18101	Head and Neck Anatomy	2	5
First Year	CHM18101	Principles of Chemistry	2	4
First Year	MOP18101	Medical and Optical Physics I	3	5
First Year	BIO18101	Biology I	2	4

First Year	COP18101	Principles of Computer Science I	**1**	**2**
First Year	HRD18101	Human Rights and Democracy	**2**	**0**
First Year	ENL18101	English Language	**2**	**0**
First Year	ANE18102	Ocular Anatomy	**2**	**5**
First Year	BIO18102	Biochemistry	**2**	**4**
First Year	MOP18102	Medical and Optical Physics II	**3**	**5**
First Year	BOL18102	Biology II	**2**	**4**
First Year	COM18102	Principles of Computer Science II	**1**	**2**
First Year	ARL18102	Arabic Language	**2**	**0**
Second Year	PHE18201	Physiology of the Eye and Vision I	**2**	**4**
Second Yea	OPE18201	Optical Devices I	**2**	**5**
Second Yea	EYH18201	Ocular Health I	**2**	**4**
Second Yea	REE18201	Refractive Errors I	**2**	**5**
Second Yea	STA18201	Statistical Applications I	**1**	**3**
Second Yea	MET18201	Medical Terminology	**2**	**0**
Second Yea	COP18201	Computer Applications I	**1**	**2**
Second Yea	CRB18201	Crimes of the Ba'ath Regime in Iraq	**2**	**0**
Second Yea	PHE18202	Physiology of the Eye and Vision II	**2**	**4**
Second Yea	OPE18202	Optical Devices II	**2**	**5**
Second Yea	EYH18202	Ocular Health II	**2**	**4**
Second Yea	REE18202	Refractive Errors II	**2**	**5**
Second Yea	STA18202	Statistical Applications II	**1**	**3**
Second Yea	PHA18202	Pharmacology	**2**	**0**
Second Yea	LIO18202	Laser Applications in	**1**	**3**

		Ophthalmology		
Second Yea	ARL18202	Arabic Language	**2**	**0**
Second Yea	COP18202	Computer Applications II	**1**	**2**
Third Year	DMS18301	Ocular Manifestations of Systemic Disorders I	**1**	**3**
Third Year	PEY18301	Prescription Eyeglasses I	**2**	**4**
Third Year	SQU18301	Strabismus I	**2**	**4**
Third Year	REF18301	Refractive Errors III	**2**	**4**
Third Year	OPT18301	Optical Devices III	**2**	**4**
Third Year	TOD18301	Laser Treatment of Eye Diseases	**1**	**2**
Third Year	COP18301	Computer Applications I	**1**	**2**
Third Year	OCM18302	Ocular Manifestations of Systemic Disorders II	**1**	**3**
Third Year	PEY18302	Prescription Eyeglasses II	**2**	**4**
Third Year	SQU18302	Strabismus II	**1**	**4**
Third Year	REF18302	Refractive Errors IV	**2**	**4**
Third Year	OPT18302	Optical Devices IV	**2**	**4**
Third Year	COP18302	Computer Applications II	**1**	**2**
Third Year	RES18302	Research Methods	**2**	**0**
Fourth Year	DIE18400	Ophthalmic Diseases II	**2**	**4**
Fourth Year	SQU18400	Strabismus II	**2**	**4**
Fourth Year	POP18400	Pediatric Ophthalmology	**1**	**2**
Fourth Year	GCL18400	Eyeglasses and Contact Lenses II	**2**	**4**
Fourth Year	OCP18400	Ocular Prostheses	**2**	**4**
Fourth Year	XRE18400	Ocular Radiology and Ultrasound	**2**	**4**
Fourth Year	PRO18400	Graduation Project	**-**	**-**
Fourth Year	WOT18400	Workshop	**-**	**4**

Fourth Year	ENG18400	English Language	1	-
Fourth Year	PRE18400	Professional Ethics	1	-

7. Expected Learning Outcomes of the Program	
Value	
Learning Outcomes	**Cognitive Objectives** 1. To understand and study the anatomical structures of the head, neck, and eye. 2. To become familiar with the fundamentals of general chemistry and biochemistry. 3.To study the basics of medical and optical physics, including their applications and types of lenses. 4.To understand the fundamentals of human biology at the cellular and genetic levels, including the types of human tissues, as well as the basics of microbiology such as bacteria, fungi, viruses, and parasites that affect the eye. 5.To become familiar with medical terminology relevant to the field of specialization. 6.To understand the basics of computer systems, including both software and hardware components. 7.To respect human rights and comprehend the concept of democracy within society.
Skills	
	Skills-Based Objectives.

Learning Outcomes	1.Ability to identify the anatomical structures of the head, neck, and eye using anatomical models in the laboratory. 2. Proficiency in conducting chemical reactions and analyzing their outcomes in the laboratory setting. 3. Competence in performing physical experiments and applying medical physics concepts in the lab. 4. Skill in using a light microscope, maintaining it, examining and preparing glass slides, and diagnosing microorganisms such as bacteria and fungi. 5. Ability to use a computer practically and demonstrate proficiency in key software applications.
Values	
	1. The student should actively engage during lectures. 2. The student should listen attentively to explanations. 3. The student should participate in and contribute to extracurricular activities. 4. The student should learn to act professionally. 5. The student should develop interpersonal communication skills.

8. Teaching and Learning Strategies

Blended learning, which consists of in-person instruction including the use of smart classrooms and specialized educational laboratories tailored to each subject, in addition to electronic communication with students for assigning tasks and delivering instructions.

9. Assessment Methods

1- Preparation of a seminar research project (graduation thesis).

2- Use of a grading system as the basis for evaluation.

3- Implementation of written examinations.
4- Use of discussions and dialogues between students and the instructor as an assessment tool.
5- Assigning test-based tasks through virtual classrooms.
6- Use of electronic assessments via Google Forms.

10.Teaching Staff

Faculty Members

Academic Rank	Specialization		Requirements / Specific Skills (if any)		Number of Faculty Members	
	General	Private			Permanent Staff	Visiting Lecturer
Asst. Prof. Aqeel Hadi Tahir		Ophthalmology	Head of the Optical Technologies Department		yes	
Asst. Lecturer Doaa Kamel Abbas	Biotechnology Sciences		Department Rapporteur		yes	
Asst. Prof. Ahmed Rasool Ghafouri	Medicine	Ophthalmology	Lecturer		yes	yes
Asst. Prof. Mohammed Abd Muheimid	General Medicine	Pediatrics and Neonatology	Lecturer		yes	
Asst. Prof. Sama Mahmood Shakir	Medicine	Ophthalmology and Eye Surgery	Lecturer			yes
Asst. Prof. Haider Sabah Kadhim	Biology		Lecturer		yes	

Asst. Lecturer Ibrahim Abdul Kareem	Applied Sciences / Physics		Lecturer		yes	
Asst. Lecturer Wafaa Abdul Aziz Fleihe	Chemistry		Lecturer		yes	
Asst. Lecturer Mo'men Ibrahim Jameel	Computer Science		Lecturer		yes	
Asst. Lecturer Muhaimen Sameer Aref	Optical Technologies		Lecturer		yes	
Asst. Lecturer Sara Hashem Zgair	Veterinary Medicine	Pharmacology and Toxicology	Lecturer		yes	
Asst. Lecturer Alaa Khummas Hussein	Optical Technologies	Vision Examination	Lecturer			yes
Asst. Lecturer Ayham Ali Mohammed	Optical Technologies		Lecturer			yes
Technician Yasser Amer Nasser	Optical Technologies		Lecturer			yes
Technician Ali Adnan Jassim	Optical Technologies		Lecturer			yes
Technician Salem Faraj Saloomi	Optical Technologies		Lecturer		Yes	
Technician Rafal Hassan Khalil	Optical Technologies		Lecturer			yes

Professional Development
Orientation for New Faculty Members
Guidance is provided on maintaining discipline at work, avoiding delays in responsibilities, and managing the classroom smoothly and calmly.
Professional Development for Faculty Members

Engaging faculty members in continuing education programs offered by universities and institutes under the Ministry of Higher Education and Scientific Research, such as courses on modern teaching methods, occupational safety, and others.

Organizing in-college training courses for faculty, conducted by specialized professors and external lecturers in various fields of expertise.

Hosting scientific conferences, seminars, and workshops in medical and health-related fields, with a focus on involving faculty members to keep pace with advancements in scientific research.

Delivering and presenting scientific seminars attended by the teaching staff.

Conducting workshops aimed at developing administrative skills among staff, particularly in areas related to quality assurance, student registration, and university statistics.

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11. Admission Standard

Centralized, according to the requirements of the Ministry of Higher Education and Scientific Research / Private Education

12. Main Sources of Information about the Program

1- The website of the College of Health and Medical Technologies
2- The website of Uruk University
3- The teaching staff at the college
4- Lecturers' course materials

13. Program Development Plan

Developing and establishing specialized scientific laboratories to enable students to

explore the latest modern technologies.

Learning Outcomes of the Program map														
				Required Learning Outcomes of the Program										
Year / Level	Course Code	Course Title	Core or Elective	Knowledge				Skills				Values		
				1A	2A	3A	4A	1B	2B	3B	4B	1J	2J	3J	4J
First Stage			Core	/	/	/	/	/	/	/	/	/	/	/	/
	AHN18101	Head and Neck Anatomy I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	ANE 18102	Ocular Anatomy II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	CHM18101	Principles of Chemistry	Core	/	/	/	/	/	/	/	/	/	/	/	/
	BIO18101	Biology I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	BOL18102	Biology II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	COP18101	Principles of Computer Science I	Core	/	/	/	/	/	/	/	/	/	/	/	
	COM18102	Principles of Computer Science II	Core	/	/	/	/	/	/	/	/	/	/	/	

	BIO 18102	Biochemistry	Core	/	/	/	/	/	/	/	/	/	/	/	/
	HRD18101	Human Rights and Democracy	Core	/	/	/	/	/	/	/	/	/	/	/	/
	MOP18101	Medical and Optical Physics I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	MOP18102	Medical and Optical Physics II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	ENL18101	English Language	Core	/	/	/	/	/	/	/	/	/	/	/	
	ARL18102	Arabic Language	Core	/	/	/	/	/	/	/	/	/	/	/	/
Second Stage	REE 18201	Refractive Errors I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	REE 18202	Refractive Errors II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	OPE18201	Optical Devices I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	OPE18202	Optical Devices II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	STA18201	Statistical Applications I	Core	/	/	/	/	/	/	/	/	/	/	/	/

	STA18202	Statistical Applications II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	PHE18201	Physiology of the Eye and Vision I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	PHE18202	Physiology of the Eye and Vision II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	ARL18202	Arabic Language	Core	/	/	/	/	/	/	/	/	/	/	/	
	PHA18202	Pharmacology	Core	/	/	/	/	/	/	/	/	/	/	/	
	LIO18202	Laser in Ophthalmology	Core	/	/	/	/	/	/	/	/	/	/	/	
	EYH18201	Ocular Health I	Core	/	/	/	/	/	/	/	/	/	/	/	
	EYH18202	Ocular Health II	Core	/	/	/	/	/	/	/	/	/	/	/	
	ENG18202	English Language	Core	/	/	/	/	/	/	/	/	/	/	/	/
	CRB18201	Crimes of the Ba'ath Regime	Core	/	/	/	/	/	/	/	/	/	/	/	/
	MET18201	Medical	Core	/	/	/	/	/	/	/	/	/	/	/	/

		Terminology													
	COP18201	Computer Applications I	Core	/	/	/	/	/	/	/	/	/	/	/	
	COP18202	Computer Applications II	Core	/	/	/	/	/	/	/	/	/	/	/	
Third Stage	DMS18301	Ocular Disorders in Systemic Diseases I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	OCM18302	Ocular Disorders in Systemic Diseases II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	SQU18301	Strabismus I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	SQU18302	Strabismus II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	REF18301	Refractive Errors III	Core	/	/	/	/	/	/	/	/	/	/	/	/
	REF18302	Refractive Errors IV	Core	/	/	/	/	/	/	/	/	/	/	/	/
	OPT18301	Optical Devices III	Core	/	/	/	/	/	/	/	/	/	/	/	/

	OPT18302	Optical Devices IV	Core	/	/	/	/	/	/	/	/	/	/	/	/
	TOD18301	Laser Treatment of Eye Diseases	Core	/	/	/	/	/	/	/	/	/	/	/	
	COP18301	Computer Applications I	Core	/	/	/	/	/	/	/	/	/	/	/	/
	COP18302	Computer Applications II	Core	/	/	/	/	/	/	/	/	/	/	/	/
	PEY18301	Prescription Eyeglasses I	Core	/	/	/	/	/	/	/	/	/	/	/	
	PEY18302	Prescription Eyeglasses II	Core	/	/	/	/	/	/	/	/	/	/	/	
	RES18302	Research Methods	Core												
Fourth Stage	WOT18400	Workshop	Core	/	/	/	/	/	/		/	/	/	/	/
	DIE18400	Ophthalmic Diseases	Core	/	/	/	/	/	/	/	/	/	/	/	/
	OCP18400	Ocular Prostheses	Core	/	/	/	/	/	/	/	/	/	/	/	/
	SQU18400	Strabismus	Core	/	/	/	/	/	/	/	/	/	/	/	/
	ENG18400	English Language	Core	/	/	/	/		/	/	/	/	/	/	/

	POP18400	Pediatric Ophthalmology	Core	/	/	/	/	/	/	/	/	/	/	/	/
	GCL18400	Eyeglasses and Contact Lenses	Core	/	/	/	/	/	/	/	/	/	/	/	/
	XRE18400	Ocular Imaging and Ultrasound	Core	/	/	/	/	/	/	/	/	/	/	/	/
	PRE18400	Professional Ethics	Core	/	/	/	/	/	/	/	/	/	/	/	/
	PRO18400	Graduation Project	Core												

Please place a checkmark in the boxes corresponding to the individual program learning outcomes being assessed.

Course Description Template

1.Course Title	
Human Biology	
2.Course Code	
BIO18101	
3. Semester/ Academic Year:	
Semester-based 2024–2025	
4. Date of Preparation of this Description	
19-3-2025	
5. Available Forms of Attendance .	
In person	
6. Total Contact Hours / Total Credit Units	
6 hours 4 units	
7. Name of the Course	
Name: Dr. Haider Sabah Kadhem **Email:** haiderskm@yahoo.com**.com**	
8. Course Objectives	
Course Objectives	□ General Objective: To identify living cells. □ Specific Objective: To identify the types of cells and tissues, as well as the histological structure of the eye.
9. Teaching and Learning Strategies	
Strategy	□ Presentation on the screen (PowerPoint) □ Daily exams (quizzes) □ Reliance on classroom activity

10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method
Week First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth Thirteenth Fourteenth Fifteenth	Two hours			☐ Presentation on screen (PowerPoint) ☐ Daily exams (quizzes) ☐ Relying on classroom activity	☐ **Daily exams** ☐ **Monthly exam**

11 . Course Assessment

Grade Distribution out of 100 Based on Student Tasks, such as daily preparation, quizzes, oral exams, monthly written exams, reports, etc

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12. Learning and Teaching Resources

Required Textbooks (Prescribed curriculum, if applicable)	
Primary References (Main sources)	f. Gonsalves, Biology 25: Human Biology, Los ngeles City College, Loosely Based on Mader's Human Biology, 7th edition.
Recommended Supplementary Books and References (e.g., scientific journals, reports, etc.)	
Electronic References and Internet Resources	

Course Title
Computer Applications
Course Code
COP18202
Semester/year
Second Semester / Second Stage / 2024–2025
Date of Preparation of this Description
18/4/2025
Available Forms of Attendance .28
In-person
Total Contact Hours / Total Credit Units
30 Practical / 15 Theoretical / 2 Units
Name of the Course Coordinator
Name: Asst. Lecturer Mumin Ibrahim Jameel Email: mumin.i.jameel@uruk.edu.iqmumin.i.jameel@uruk.edu.iq
Course Objectives

Course Objectives	To understand the basics and components of networks and their types. To become familiar with the concept of the Internet and its applications (e.g., email, browsers). To equip students with skills in creating, editing, and printing presentations. To use spreadsheets for performing calculations. An introduction to artificial intelligence, its applications, and uses.
Teaching and Learning Strategies	
Strategy	□ Teaching the theoretical content by presenting it to students and encouraging their participation. □ Teaching the practical part of the subject using computers. □ Having students apply the material practically using computers. □ Conducting implicit (formative) assessments during the lecture. □ Activating an assessment in the lecture following the explanation to reinforce the material and evaluate its effectiveness for students.

Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method
First	3	What is a network?	Security and Networks	Theoretical and practical explanation	Discussion and exam
Second	3	Types of networks, basic components	Security and Networks	Theoretical and practical explanation	Discussion and exam
Third	3	of a network	E-Commerce	Theoretical explanation	Discussion and exam
Fourth	3	Basics of network security, understanding network	Computer Troubleshooting and Repair	Theoretical and practical explanation	Discussion and exam
Fifth	3	threats	Computer Troubleshooting and Repair	Theoretical and practical explanation	Discussion and exam
Sixth	3	E-commerce concepts		Theoretical explanation	
Seventh	3	Identifying and resolving common hardware and software issues faced by computer users	Introduction to Artificial Intelligence	Theoretical explanation	Discussion and exam
Eighth	3	Basic tools and techniques for diagnosing and solving problems	Introduction to Artificial Intelligence	Theoretical and practical explanation	Discussion and exam
Ninth	3	definition of artificial	The Role of Artificial Intelligence in Modern Smartphones	Theoretical and practical explanation	Discussion and exam
Tenth	3	intelligence,	The Role of Artificial Intelligence in Modern Smartphones	Theoretical explanation	Discussion and exam

		history of AI, AI techniques and approaches	Artificial Intelligence Applications and Tools	Theoretical explanation	Discussion and exam
Eleventh	3		Artificial Intelligence Applications and Tools	Theoretical explanation	Discussion and exam
Twelfth	3	Key characteristics of AI, benefits of AI, ethical challenges and considerations	Artificial Intelligence Applications and Tools	Theoretical explanation	Discussion and exam
Thirteenth	3		Artificial Intelligence and Society	Theoretical explanation	Discussion and exam
Fourteenth	3	Mobile technologies supported by AI, virtual assistants (Siri, Google Assistant, Alexa)	Ethical Challenges in Artificial Intelligence	Theoretical explanation	Discussion and exam
Fifteenth	3	Google ‘Assistant (Alexa	The Future of Artificial Intelligence		

Course Assessment	
Grade Distribution out of 100 Based on Student Tasks, such as daily preparation, quizzes, oral exams, monthly written exams, reports, etc	
12. Learning and Teaching Resources	
Required Textbooks (Prescribed curriculum, if applicable)	
Primary References (Main sources)	
Recommended Supplementary Books and References (e.g., scientific journals, reports, etc.)	WANG, Jie. *Computer network security*. Berlin/Heidelberg, Germany: Springer, 2009.
Electronic References and Internet Resources	

1. Course Title					
Eye health1,					
2.Course Code					
EYH18201					
3. Semester/year					
First Semester / Second Stage					
4.Date of Preparation of this Description					
2025\3\20					
5.Available Forms of Attendance .					
Direct in-person					
6.Total Contact Hours / Total Credit Units .					
6 hours per week (2 theoretical, 4 practical) / 4 credit units					
7.Name of the Course Coordinator					
Name: Mohammed Abd Muhaimid Email: mohamedmohaimed5@gmail.com					
8. Course Objectives					
Course Objectives	A comprehensive understanding of each disease that may affect the eye, along with methods of early diagnosis, in order to provide guidance and advice, and refer patients to specialists for appropriate treatment.				
9. Teaching and Learning Strategies					
Strategy:	Delivering lectures using various presentation methods such as PowerPoint, videos, and quizzes.				
10. Course Structure					

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method
the first the second the third		Introduction: review of anatomy & physiology the eye			

Fourth Fifth Sixth Seventh Eighth Ninth tenth eleventh twelfth thirteenth fourteenth fifteenth		Introduction: history & examination of the eye Introduction: certain ophthalmic terms. (terminology(Primary eye care Primary eye care Screening procedures in ophthalmology Screening procedures in ophthalmology School eye screening programs Concept of community ophthalmology sticky eye, watery eye Concept of community ophthalmology flashes of light, floating object in visual field			

		Concept of community ophthalmology long term glaucoma monitoring The epidemiology of blindness (general principles(The epidemiology of blindness (disease specific strategy(The right to sight (vision 2020(Revision			

11.Course Assessment
Grade Distribution out of 100: Coursework: 25 marks (theoretical) + 15 marks (practical) Final Practical Exam: 25 marks, Final Theoretical Exam: 35 marks,

12. Learning and Teaching Resources	
Required Textbooks (Prescribed curriculum, if applicable)	Lectures and Activities within the Lessons Reference: *Kanski – Ophthalmology*
Primary References (Main sources)	*Ophthalmolog* Kanski
Recommended Supplementary Books and References (e.g.,	

scientific journals, reports, etc.)	
Electronic References and Internet Resources	Medscape, UpToDate

13. Course Title
Eye health2,
14. Course Code
EYH18202
15. Semester/year
Second Course / Second Stage
16. Date of Preparation of this Description
2025\3\20
17. Available Forms of Attendance .
In person
18. Total Contact Hours / Total Credit Units .
6 hours per week (2 theoretical, 4 practical) / Number of credits: 4
19. Name of the Course Coordinator
Name: Mohammed Abd Muhaimid **Email:** mohamedmohaimed5@gmail.com
20. Course Objectives

Course Objectives:	To gain an in-depth understanding of all diseases that may affect the eye, with a focus on early diagnosis, as well as providing guidance, advice, and referring patients to specialists for proper treatment.

21. Teaching and Learning Strategies:

Strategy	livering lectures using various presentation methods such as PowerPoint, videos, and quizzes.

22.Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method
first Second		National program for control of blindness			
Third		National program for control of blindness			
Fourth		Acute loss of vision, differential diagnosis			
Fifth		Acute loss of vision, differential diagnosis			
Sixth		Gradual loss of vision			
Seventh		Gradual loss of vision			
Eighth		Painful eye: differential diagnosis			
Ninth		Painful eye: differential diagnosis			

Tenth		Red eye: differential diagnosis			
Eleventh		Red eye: differential diagnosis			
Twelfth		Information, education and communication			
Thirteenth		Rehabilitation of visually handicapped			
Fourteenth		Rehabilitation of visually handicapped			
fifteenth		National program for control of blindness Revision			

23. Course Assessment
Grade Distribution out of 100: Coursework: 25 marks (theoretical) + 15 marks (practical) Final Practical Exam: 25 marks, Final Theoretical Exam**:** 35 marks,

24. Learning and Teaching Resources	
Required Textbooks **(**Prescribed curriculum, if applicable)	Lectures and Activities Within the Lessons
Primary References **(**Main sources)	*Kanski* – Ophthalmology Reference Book

Recommended Supplementary Books and References (e.g., scientific journals, reports, etc.)	
Electronic References and Internet Resources	Medscape, UpToDate

25. :Course Title
Arabic Language
26.:Course Code
ARL18202
27. Semester/year
Second Semester – Academic Year 2024/2025
28. Date of Preparation of this Description
20 / 3 /2025
29. | Available Forms of Attendance
In the Class
30. Total Contact Hours / Total Credit Units .
30 total hours / 2 hours per week / 2 credit units
31. Name of the Course Coordinator
Name: Asst. Lecturer Nawras Salman Abdullateef **Email:** nawras.s.abdullateef@uruk.edu.iq
32. Course Objectives .

Course Objectives	Introduce students to the principles of the Arabic language Familiarize students with Arabic grammar and syntax Develop cognitive and behavioral skills within the framework of the Arabic language Highlight the living human dimension of Arabic among contemporary world languages Enable students to fully understand what they read and write

33. Teaching and Learning Strategies:

Strategy	Lecturing, using the method of explanation and clarification with discussion and dialogue, quick quizzes.

34. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method
1	One hour		Qur'anic Expression:	Delivering a Lecture	Questions and Answers
2	One Hour		Grammatical and	Delivering a Lecture	Questions and Answers
3	One Hour		Rhetorical Aspects	Delivering a Lecture	Questions and Answers
4	One Hour		The Poet Badr Shakir	Delivering a Lecture	Questions and Answers
	One Hour		al-Sayyab	Delivering a Lecture	Questions and Answers
6	One Hour		Primary and Secondary	Delivering a Lecture	Questions and Answers
7	One Hour		Case Endings (I'rab	Delivering a Lecture	Questions and Answers
8	One Hour		Signs)	Delivering a Lecture	Questions and Answers
9	One Hour		The Nominal Sentence	Delivering a Lecture	Questions and Answers
10	One Hour		(Subject and Predicate)	Delivering a Lecture	Questions and Answers
11	One Hour		"Inna" and its Sisters	Delivering a Lecture	Questions and Answers
			The Difference	Delivering a Lecture	Questions and Answers
			Between "Inna" and	Delivering a Lecture	Questions and Answers
			"Anna"	Delivering a Lecture	Questions and Answers
					Questions and

12 13 14 15	One Hour One Hour One Hour One Hour		"Kana" and its Sisters The Five Verbs Linguistic Errors Synonyms and Antonyms The Dual Form and Its I‘rab (Declension) Sound Masculine Plural Sound Feminine Plural	Delivering a Lecture Delivering a Lecture Delivering a Lecture	Answers Questions and Answers Questions and Answers

35.Course Assessment	
Grade Distribution out of 100 Based on Student Tasks, such as daily preparation, .quizzes, oral exams, monthly written exams, reports, etc	
36. Learning and Teaching Resources	
Prescribed Textbooks (if available):	
Main References (Sources):	Sharh Ibn Aqeel on Alfiya Ibn Malik The Most Important Rules of Arabic Spelling by Dr. Fares Abdul Salam

1. Course Title
Eye problems in systemic disorders 1
2. Course Code
DMS18301
3. Semester/year
Third year/ first semester

4. Date of Preparation of this Description
2025\3\20
5. Available Forms of Attendance
In Person
6. Total Contact Hours / Total Credit Units .
3 hours per week (1 theoretical, 3 practical) / Number of credits: 3
7. Name of the Course Coordinator
Name: Mohammed Abd Muhaymid Email: mohamedmohaimed5@gmail.com
8. Course Objectives

Course Objectives	Specific objective: To identify eye problems associated with certain chronic internal and neurological diseases, and to learn how to diagnose and treat them.
9. Teaching and Learning Strategies	
Strategy	Delivering lectures using various presentation methods such as PowerPoint, videos, and quizzes.

10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method
the first the second the third Fourth Fifth Sixth Seventh Eighth		Trauma to the eye, lids, foreign body. Trauma, chemical injuries Diabetic eye disease, pathophysiology. Diabetic eye complications. Hypertension pathophysiology. Hypertensive eye			

Ninth tenth eleventh twelfth thirteenth fourteenth fifteenth		disease. Ocular side effects of systemic medication. Thyroid eye disease, Thyroid gland anatomy and physiology. Ocular manifestations associated with thyroid gland problems Ocular manifestations associated with blood disorders, sickle cell anemia, thalassemia, Blitiyscarasis &Tumor. Ocular manifestations associated with blood disorders, retinal venous occlusive disease and retinal arterial occlusive disease. Ocular manifestations associated with systemic infections, viral, bacterial,			

		fungal and autoimmune diseases. Ocular manifestations in neurological disorders. Ophthalmic manifestations of systemic neoplasia. Revision.			

11. Course Assessment
Grade Distribution out of 100: Coursework: 25 marks (theoretical) + 15 marks (practical) Final Practical Exam: 25 marks, Final Theoretical Exam: 35 marks,

12. Learning and Teaching Resources	
• Required Textbooks (Prescribed curriculum, if applicable)	Lectures and Activities within the Lessons:
Primary References (Main sources)	*Kanski – Clinical Ophthalmology* (Ophthalmology Reference)
Recommended Supplementary Books and References (e.g., scientific journals,	

reports, etc.)	
Electronic References and Internet Resources	Medscape, Up To Date

37. Course Title .
Eye problems in systemic disorders 2
38. Course Cod
DMS18302
39. Semester/year
Third year/Second Semester
40. Date of Preparation of this Description
2025\3\20
41. Available Forms of Attendance .
In person
42. Total Contact Hours / Total Credit Units
4 hours per week (1 theoretical, 3 practical) / Number of credits: 3
43. Name of the Course Coordinator
Name: Mohammed Abd Muhaymid Email: mohamedmohaimed5@gmail.com
44. Course Objectives

Course Objectives	Specific objective: To identify eye problems associated with certain chronic internal and neurological diseases, and to learn how to diagnose and treat them.
45. Teaching and Learning Strategies	
Strategy:	Delivering lectures using various presentation methods such as PowerPoint, videos, and quizzes.

46. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method
the first		Brain lesions, multiple sclerosis, types of			

the second the third Fourth Fifth Sixth Seventh Eighth Ninth tenth eleventh twelfth thirteenth fourteenth fifteenth		headaches, stroke. Intracranial lesion, hematoma, trauma to the head. Pathophysiology of cerebrovascular accident, transient ischemic attack. Physiology of cerebral spinal fluid, hydrocephalus. Intracranial aneurysm, symptoms causes and treatment. Neurological infections, brain infections, meninges, spinal cord infections, encephalitis and meningitis. Neuroinfectious diseases, HIV, harvesters, herpes simplex. Syphilis, toxoplasmosis, sarcoidosis, causes, symptoms and treatment. Demyelinating disorders, types and symptoms. Demyelinating disorders, causes and treatment. Hereditary diseases			

		affecting the eye. Hereditary diseases affecting the eye. Degenerative eye diseases. Ophthalmoplegia, causes, symptoms, management and risk factors Revision.			

47. Course Assessment
Grade Distribution out of 100: Coursework: 25 marks (theoretical) + 15 marks (practical) Final Practical Exam: 25 marks, Final Theoretical Exam: 35 marks,

48. Learning and Teaching Resources	
Required Textbooks (Prescribed curriculum, if applicable)	Lectures and Activities Within the Lessons *Kanski* – Ophthalmology Reference Book
Primary **References** (Main sources)	*nski* – Ophthalmology Reference Book
Recommended **Supplementary Books and References** (e.g., scientific journals, reports, etc.)	
Electronic **References and Internet Resources**	Medscape, up to date

49. Course Title .
Pediatric Ophthalmology
50. Course Code
POP18400
51. Semester/year .
Fourth year/Semester/year

52. Date of Preparation of this Description
2025\3\20
53. Available Forms of Attendance
In person
54. Total Contact Hours / Total Credit Units .
6 hours per week (2 theoretical, 4 practical) / Number of credits: 8
55. Name of the Course Coordinator
Name: Mohammed Abd Muhaymid Email: mohamedmohaimed5@gmail.com
56. Course Objectives

Course Objectives	The student should be familiar with pediatric examination, diagnosing eye diseases, and attempting treatment.

57. Teaching and Learning Strategies	
Strategy	Delivering lectures using various presentation methods such as PowerPoint, videos, and quizzes.

58. Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Assessment Method

59. Course Assessment
Grade Distribution out of 100: First Semester: 20 marks (12 theoretical + 8 practical), Second Semester: 20 marks (12 theoretical + 8 practical) Total Coursework: Sum of First and Second Semester marks Final Practical Exam: 25 marks Final Theoretical Exam: 35 marks
60. Learning and Teaching Resources

Required **Textbooks** (Prescribed curriculum, if applicable)	Lectures and Activities within the Lessons
Primary **References** (Main sources)	Nelson_Textbook_of_Pediatrics_22nd_ edition_2024

Recommended **Supplementary Books and References** (e.g., scientific journals, reports, etc.)	
Electronic **References and Internet Resources**	Medscape, up to date

Course Description Template

Course Title					
Biostatistics					
Course Code:					
STA18201					
Academic Year / Subject:					
Annual – Second Stage, Department of Optics, 2024–2025					
Date of Description Preparation:					
22/3/2025					
Available Attendance Mode					
In person					
8 Total Credit Hours / Units					
Course Coordinator (If more than one, list all)					
Name: Asst. Prof. Dr. Ankin Antranek Hayk **Email:** ankenhayk@uruk.edu.iq					
Course Objectives					
Course Objectives	1 Introducing students to statistical concepts. 2 Enabling students to identify different types of data. 3 Enabling students to understand statistical measures and how to apply them in solving problems across various applications.				
Teaching and Learning Strategies					
Strategy	Developing curricula aligned with accredited scientific standards and delivering theoretical lectures using presentation screens and internet-based programs.				
Course Structure					
Week	**Hours**	**Intended Learning Outcomes**	**Unit / Topic Title**	**Learning Method**	**Assessment Method**

1	2	Knowledge	Def. Biostatistics , Statistics	In-person attendance	Daily and monthly exam
2	2	Knowledge	Type of data ,Sample , Population		
3	2	Knowledge	Scientific method of research	In-person attendance	Daily and monthly exam
4	2	Knowledge	Example , Exercies	In-person attendance	Daily and monthly exam
5	2	Knowledge	Type of Random Sample	In-person attendance	Daily and monthly exam
6	2	Knowledge	Type of non random sample	In-person attendance	Daily and monthly exam
7	2	Knowledge	Type of table	In-person attendance	Daily and monthly exam
8	2	Knowledge	Constract frequency dist.	In-person attendance	Daily and monthly exam
9	2	Knowledge	Discrete and continuous variable	In-person attendance	Daily and monthly exam
10	2	Knowledge	Example		
11	2	Knowledge	Exercies	In-person attendance	Daily and monthly exam
12	2	Knowledge	Measure of Central Tendency	In-person attendance	Daily and monthly exam
13	2	Knowledge	Mean , Quadratic , Harmonic , Geometric	In-person attendance	Daily and monthly exam
14	2	Knowledge	Relation between mean , median , mode		Daily and monthly exam
15	2	Knowledge Knowledge	H.W.	In-person attendance	Daily and monthly exam
16	2	Knowledge	Mean , Measures of Dispersion (Range , variance)	In-person attendance	Daily and monthly exam
17	2	Knowledge	Standard Deviation , Coefficient of Variation	In-person attendance	Daily and monthly exam
18	2	Knowledge	Mean deviation , Example	In-person	
19	2				

		Knowledge	H.W	attendance	Daily and monthly exam
20	2	Knowledge	Correlation and Regression	In-person attendance	Daily and monthly exam
21	2	Knowledge	Simple Linear Correlation	In-person attendance	Daily and monthly exam
22	2	Knowledge	Partial Linear Correlation	In-person attendance	Daily and monthly exam
23	2	Knowledge	H.W	In-person attendance	Daily and monthly exam
24	2	Knowledge	Regression	In-person attendance	Daily and monthly exam
25	2	Knowledge	Simple Linear Regression	In-person attendance	Daily and monthly exam
26	2	Knowledge	Multiple Linear Regression H.W.	In-person attendance	Daily and monthly exam
27	2	Knowledge	Hypothesis Testing , significant test	In-person attendance	Daily and monthly exam
28	2		Statistical Analysis	In-person attendance	Daily and monthly exam
29	2		H.W.	In-person attendance	Daily and monthly exam
30					Daily and monthly exam
54				In-person attendance	
5					Daily and monthly exam
6					
7				In-person attendance	
8					Daily and monthly exam
90					
12				In-person attendance	In-person attendance
13					
14					
15				In-person Attendance	Daily and monthly exam
				In-person attendance	Daily and monthly exam
				In-person attendance	Daily and monthly exam

					Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam

					Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam Daily and monthly exam

Course Assessment	
Grade Distribution out of 40: The continuous assessment is based on tasks assigned to the student, such as daily preparation, quizzes (written and oral), monthly exams, written assessments, reports, and other related activities.	
Learning and Teaching Resources	
Prescribed Textbooks (Curricular, if available)	Biostatistics – authored by Prof. Dr. Ziyad Al-Rawi Statistics – authored by Dr. Khasha' Al-Rawi Statistics – authored by Assist. Prof. Amir Hanna
Main References (Sources)	Wayne W. Daniel: Biostatistics " Basic concepts and

	methodology for the Health sciences ' 9th Edition2010 statistic
Recommended Supplementary Books and References (e.g., scientific journals, reports...)	
Electronic References and Websites	Biostatistics 10th Edition

Course Description Template

Course Title	
Ophthalmic Diseases	
Course Code	
DIE18400	
Academic Year / Type of Course	
2025-2024	
Date of Description Preparation	
2025-04-29	
Available Attendance Mode	
In-person	
Total Credit Hours / Units	
6 hours per week (2 theoretical and 4 practical) / Total Units: 8	
:Course Coordinator (If more than one, list all)	
Name: Dr. Aqeel Hadi Tahir **Email:** akeel_alassadi57@yahoo.com	
Course Objectives	
General Objective: To enable the student to understand the full range of diseases and injuries that may affect the eye. **Specific Objective:** To provide in-depth knowledge of each potential eye disease, including methods of early diagnosis, with the aim of guiding, advising, and referring patients to specialists for appropriate treatment.	....
Teaching and Learning Strategies	
Strategy	Delivering lectures using a variety of presentation methods, including PowerPoint, videos, and quizzes.
Course Structure	

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
First		Diseases of the orbit (infection)			
Second		Diseases of the eye lids (infections, viral, bacterial, allergic)			
Third		Diseases of the eye lids (ptosis, ectropion & entropion)			
Fourth		lacrimal drainage diseases(causes & evaluation)			
Fifth		lacrimal drainage diseases (obstruction & infection)			
Sixth		Diseases of the conjunctiva(infections, viral, bacterial)			
Seventh		Diseases of the conjunctiva (allergic conjunctivitis& degenerative Diseases of the conjunctiva)			
Eighth		Disorders of the cornea inflammation(infection &allergic)			
Ninth		Anomalies of the Cornia (congenital)(micro cornia) megalux cornia ,sclera cornia ,keratoconus, Anophthalmus.			
Tenth		Diseases of the crystalline lens abnormalities of (shape,act0pis)			
Eleventh		Cataracts congenital Cataract - acquired			

Twelfth Thirteenth Fourteenth Fifteenth Sixteenth Seventeenth Eighteenth Nineteenth Twentieth Twenty-first Twenty-second Twenty-third Twenty-fourth Twenty-fifth Twenty-sixth Twenty-seventh Twenty-eighth		Diseases of uveal tract(uveitis, infection, fungal, bacterial) Anterior & posterior uveitis. Vitreous opacities (introduction, Vitreous hemorrhage) Cholesterics bulb, Vitreous cyst. Diseases retina – retinopathy (diabetic, hypertensive &retinopathy of prematurity) Age related macular regeneration Retinal detachment Hereditary fundus dystrophies Glaucoma(introduction & tonometeies) Types of Glaucoma (open angle , closed angle) Primary congenital Glaucoma Normal pressure Glaucoma Pseudo exhalation Trauma, orbital fracture &trauma to the globes , eyelid trauma Chemical injuries			

Twenty-ninth Thirtieth		Ocular side effect of systemic medication (Cornia, lens) Ocular side effect of systemic medication (uveitis, retina) (optic nerve)			

Course Assessment
Grade Distribution (out of 100): Based on student-assigned tasks such as daily preparation, quizzes, oral and written exams (weekly and monthly), reports, and other assignments.
c

Required Textbooks *(Prescribed curriculum, if available)*	
Main References (Sources)	
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description: Crimes of the Ba'ath Regime in Iraq

1. Course Title
Crimes of the Ba'ath Regime in Iraq
2. :Course Code
CRB18201
:3. Academic Year / Type of Course
First Semester – Academic Year 2024/2025
:4. Date of Description Preparation

22/3/2025	
:5. Available Attendance Mode	
In Class	
. 6. Total Study Hours: 6 | Weekly Hours: [insert number] | Credit Units: [insert number]	
Total Study Hours: 30 | Weekly Hours: 2 | Credit Units: 2	
7. Name of Course Coordinator *(List all names if more than one*	
Name: Dr. Sameh Abdullatif Ali **Email:** Master121Sam@gmail.com	
8. Course Objectives .	
Course Objectives	1. To enable students to recognize the numerous crimes committed by the defunct Ba'ath regime against various components and segments of the Iraqi people, in order to foster awareness and rejection of all forms of oppression and authoritarianism, and to promote the demand for civil and political rights as guaranteed by the Constitution. 2 To familiarize students with the content of both national and international laws that guarantee human rights and freedom of expression, while also enhancing their legal awareness to reject any form of violation, whether within their own country or abroad. 3. To introduce students to the statutes of the International Criminal Court and the Iraqi High Criminal Court (established in 2005), which documented the crimes against humanity committed by the former Ba'ath regime during its time in power.
9. Teaching and Learning Strategies	
Strategy	Lecturing, discussion and dialogue methods, brainstorming, and short quizzes
10. Course Structure .	

Week	Hours	Learning Method	Unit / Topic Title	Assessment Method	Learning Method
1	One hour	Introduce students to the crimes committed by the Ba'ath regime.	The concept and classifications of crimes	Delivering the Lecture	Questions and Answers
2	One hour	Distinguish between the concept and classifications of crimes.	Definition of crime: linguistically and legally	Delivering the Lecture	Questions and Answers
3	One hour	Clarify terminology and legal language related to criminal law.	Categories of crimes	Delivering the Lecture	Questions and Answers
4	One hour	Identify the different categories of crimes.	Types of international crimes	Delivering the Lecture	Questions and Answers
5	One hour	Understand the various types of international crimes.	Rulings issued by the Criminal Court	Delivering the Lecture	Questions and Answers
6	One hour	Study the rulings issued by the International Criminal Court.	Psychological and social crimes, and the most prominent violations committed by the Ba'ath Party	Delivering the Lecture	Questions and Answers
7	One hour	Examine psychological and social crimes, as well as the major human rights violations committed by the Ba'ath Party.	The concept and classifications of crimes	Delivering the Lecture	Questions and Answers
8	One hour	Explore the nature and impact of psychological crimes.	Psychological Crimes	Delivering the Lecture	Questions and Answers
9	One hour	Understand the mechanisms of psychological crimes.	Mechanisms of Psychological Crimes	Delivering the Lecture	Questions and Answers

10	One hour	Understand the effects of psychological crimes.	Effects of Psychological Crimes	Delivering the Lecture	Questions and Answers
11	One hour	Identify the nature of social crimes.	Social Crimes	Delivering the Lecture	Questions and Answers
12	One hour	Clarify the concept of the militarization of society.	Militarization of Society	Delivering the Lecture	Questions and Answers
13	One hour	Examine the Ba'ath Party’s stance toward religion.	The Ba'ath Party's Stance on Religion	Delivering the Lecture	Questions and Answers
14	One hour	Analyze violations of Iraqi national laws.	Violations of Iraqi Laws	Delivering the Lecture	Questions and Answers
15	One hour	Identify forms of human rights violations.	Forms of Human Rights Violations	Delivering the Lecture	Questions and Answers
16	One hour	Review selected rulings on political violations.	Selected Rulings on Political Violations	Delivering the Lecture	Written Exam
17	One hour	Locate prisons and detention centers used by the regime.	Locations of Prisons and Detention Centers	Delivering the Lecture	Questions and Answers
18	One hour	Study the environmental crimes committed by the Ba'ath regime.	Environmental Crimes Committed by the Ba'ath Regime	Delivering the Lecture	Questions and Answers
19	One hour	Understand the impact of war-related pollution.	War-Related Pollution	Delivering the Lecture	Questions and Answers
20	One hour	Examine the destruction of cities and villages.	Destruction of Cities and Villages	Delivering the Lecture	Questions and Answers

21	One hour	Study the draining of the marshlands.	Draining of the Marshlands	Delivering the Lecture	Questions and Answers
22	One hour	Examine the bulldozing of orchards.	Bulldozing of Orchards	Delivering the Lecture	Questions and Answers
23	One hour	Identify mass graves.	Mass Graves	Delivering the Lecture	Questions and Answers
24	One hour	Analyze events related to genocide burial sites.	Events of Genocide Burial Sites	Delivering the Lecture	Questions and Answers
25	One hour	Understand the symbolic classification of genocide graves.	Symbolic Classification of Genocide Graves	Delivering the Lecture	Questions and Answers
26	One hour	Review documentary evidence of genocide crimes.	Presentation of Documents Related to Genocide Crimes	Delivering the Lecture	Questions and Answers
27	One hour	Examine rulings issued by the Criminal Court.	Presentation of Rulings by the Criminal Court	Video Presentation	Questions and Answers
28	One hour	Identify the charges brought against the former regime.	Charges Brought Against the Former Regime	Video Presentation	Questions and Answers
29	One hour	Analyze visual documentation of crimes.	Presentation of Visual Documentation of Crimes	Video Presentation	Questions and Answers
30	One hour	View and present visual materials documenting the crimes.	***(Repeated)*** Presentation of Visual Documentation of Crimes	Video Presentation	Questions and Answers
.11. Course Assessment					

The grade is distributed out of 100 based on the tasks assigned to the student, such as attendance, daily preparation, daily, oral, and monthly exams, as well as the final semester exam.

. 12. Teaching and Learning Resources	
Required Textbooks	Crimes of the Ba'ath Regime in Iraq
Main References (Sources)	Archive of the Political Prisoners Foundation

Course Description Template

Course Objectives	
Strategy	

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	
1	1	Theoretical	Unit one The tense system	Lecture	
2	1	Theoretical	Informal language	Lecture	
3	1	Theoretical	Compound word	Lecture	
4	1	Theoretical	Residing	Lecture	
5	1	Theoretical	Social expressions	Lecture	
6	1	Theoretical	Unit one workbook	Lecture	
7	1	Theoretical	Unit two Present perfect	Lecture	
8	1	Theoretical	Present simple and continuous	Lecture	
9	1	Theoretical	Hot verbs	Lecture	
10	1	Theoretical	Exclamation	Lecture	
11	1	Theoretical	Reading	Lecture	
12	1	Theoretical	Unit two workbook		
13	1	Theoretical	exam	Exam	
14	1	Theoretical	Unit three Narrative tenses	Lecture	
15	1	Theoretical	Giving news	Lecture	
16	1	Theoretical	Books and films	Lecture	
17	1	Theoretical	Showing interest	Lecture	
18	1	Theoretical	Unit three workbook	Lecture	
19	1	Theoretical	Unit one(advance)	Lecture	
20	1	Theoretical	Synonyms in context	Lecture	
21	1	Theoretical	Reading	Lecture	
22	1	Theoretical	Unit one workbook	Lecture	
23	1	Theoretical	Unit two (advance)	Lecture	
24	1	Theoretical	Phrasal verbs	Lecture	
25	1	Theoretical	Adverb collocation	Lecture	
26	1	Theoretical	Describing trends	Lecture	
27	1	Theoretical	Exam	Lecture	
28	1	Theoretical	Review	Lecture	
29	1	Theoretical	Review	Lecture	

30	1	Theoretical	Review	Lecture	
The grade is distributed out of 1					
Required Textbooks *(Prescribed curriculum, if available)*					
Main References (Sources)					
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*					
Electronic References and Internet Resources					

Course Description Template

24.Course Title	
Refractive Errors	
25. Course Code	
REE18201	
:Academic Year / Type of Course	
First Semester/Second Stage	
27.Date of Description Preparation	
2025/5/1	
28. Available Attendance Mode	
In Person	
29. Total Credit Hours / Units .	
2 Theoretical Hours and 4 Practical Hours	
30. Course Coordinator (If more than one, list all)	
Name: Asst. Lecturer Alaa Khammass Hussein **Email:** alaakhammas365@gmail.com	
31.Course Objectives	
Course Objectives	1 Refractive Error Examination 2 Methods of Diagnosis 3 Treatment
32. Teaching and Learning Strategies	
Strategy	

33.Course Structure					
Week	**Hours**	**Intended Learning Outcomes**	**Unit / Topic Title**	**Learning Method**	**Assessment Method**
1	2		Light	data show	Quiz
2	2		Mirror & lens	data show	Quiz
3	2		Visual Acuity (AV)	data show	Quiz
4	2		Trial case	data show	Quiz
5	2		Retinoscope (Introduction , types of movement)	data show	Quiz
6	2		Retinoscope	data show	Quiz
7	2		Refractive error (Define and types of R.E)	data show	Quiz
8	2		Myopia (Sign and Symptoms)	data show	Quiz
9	2		Myopia	data show	Quiz
10	2		Hypermetropia (sign & symptoms)	data show	Quiz
11	2		Hypermetropia	data show	Quiz
12	2		Astigmatism	data show	Quiz
13	2		Astigmatism	data show	Quiz
14	2		Astigmatism (sign & symptoms)	data show	Quiz
15	2		Revision		

24. Course Assessment
The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, etc.

25. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	
Main References (Sources)	American academy for optometry
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

24. Course Title
Medical Glasses
25. Course Code .
PEY18301
26. Academic Year / Type of Course
First Semester / Third Year
27. Date of Description Preparation
2025/5/1
28. Available Attendance Mode .

29. Total Credit Hours / Units .10
2 Hours Theoretical and 4 Hours Practical
30.Course Coordinator (If more than one, list all)
Name: Asst. Lecturer Alaa Khammass Hussein **Email:** alaakhammas365@gmail.com
31. Course Objectives

Course Objectives	1 Measuring the Power of Medical Lenses 2 Writing the Medical Prescription 3 Fully Assembling Medical Glasses
32.Teaching and Learning Strategies	
Strategy	

33.Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1	2			data show	Quiz
2	2			data show	Quiz
3	2			data show	Quiz
4	2			data show	Quiz
5	2			data show	Quiz
6	2			data show	Quiz
7	2			data show	Quiz
8	2			data show	Quiz
9	2			data show	Quiz
10	2		Plano Lens Advantages).	data show	Quiz
11	2		Knife lens.	data show	Quiz
12	2			data show	Quiz
13	2		CR-39 Lenses (Advantages	data show	Quiz
14	2			datashow	Quiz
15	2		Photochromatic.	data show	Quiz
			IPD (Inter-pupillary distance).	data show	Quiz
			Advantages of frames.		
			Decentration of lenses.		

Groups of materials for single (different size) and double lenses (GM).

Care of your glasses (Cleaning Method and Storage).

Taking care of eye glasses with maintenance.

and disadvantages).

			Boxing system of lenses (brief). Back Vertex Distance. Revision.		

25. Course Assessment	
The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, etc.	
25. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	
Main References (Sources)	Medical glasses of optometry
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

26. Course Title	
Refractive Errors	
27. Course Code	
REF18301	
28. Academic Year / Type of Course	
Semester / Third Year	
29.Date of Description Preparation	
2025/5/1	
30. Available Attendance Mode	
31. Total Credit Hours / Units	
2 Theoretical Hours and 4 Practical Hours	
33.Course Coordinator (If more than one, list all)3333	
Name: Asst. Lecturer Alaa Khammass Hussein **Email:** alaakhammas365@gmail.com	
34.Course Objectives	
Course Objectives	1 Examination of Refractive Error 2 Methods of Diagnosis 3 Treatment
34. Teaching and Learning Strategies	
Strategy	

35. Course Structure

Week	Hours	Intended Learning	Unit / Topic Title	Learning Method	Assessment Method

		Outcomes			
1	2		Accommodation (definition &types).	data	Quiz
2	2		Mechanism of accommodation.	show	Quiz
3	2		Convergence of accommodation (convergence treatment).	data	Quiz
4	2		Accommodation insufficiency.	show	Quiz
5	2		Paralysis of accommodation.	data	Quiz
6	2		Writing prescription.	show	Quiz
7	2		Transposition.	data	Quiz
8	2		Treatment of refractive errors.	show	Quiz
9	2		Treatment of refractive errors.	data	Quiz
10	2		Contrast sensitivity (instrument of low vision).	show	Quiz
11	2		Color blindness definition & types.	data	Quiz
12	2		Diagnosis of color blindness.	show	Quiz
13	2		Color deficiency.	data	Quiz
14	2		Management of color blindness & treatment.	show	Quiz
15	2		Revision.	data	Quiz
				show	Quiz
				data	
				show	
				data	
				show	
				data	
				show	
				data	
				show	
				data	
				show	
				data	
				show	
				data	
				show	
				data	
				show	

36. Course Assessment

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, and so on.

37. Learning and Teaching Resources

Required Textbooks *(Prescribed curriculum, if available)*	
Main References (Sources)	American academy for optometry
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

1. Course Title

Optical instruments1	
2. Course Cod	
OPE18201	
:Academic Year / Type of Course	
First Course / Second Year	
4. Date of Description Preparation	
2025/4/29	
5. Available Attendance Mode	
In-Person Attendance	
6. Total Credit Hours / Units	
7 hours per week (2 theoretical and 5 practical) – Number of units: 4	
:Course Coordinator (If more than one, list all)	
Name: Dr. Ahmed Rasool Noori **Email:** ahmed.noori76@yahoo.com	
8. Course Objectives	
Course Objectives	1 The student should be knowledgeable about all optical devices and their uses. 2 The student should be able to operate the devices and understand how to maintain them.
9. Teaching and Learning Strategies	
Strategy	Delivering lectures using a variety of presentation methods.

10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1		2 hrs	Introduction and general information.		
2			General consideration		
3			Ophthalmic instruments decontamination		
4			Risk of transmission of infection in devices.		
5			Risk of transmission of infection in devices.		
6			Test charts, trial case and frame.		
7			Test charts, trial case and frame.		
8			Retinoscope		
9			Auto refractometer		
10			Auto refractometer		
11			Tonometer contact and non contact.		
12			Tonometer contact and non contact.		
13			Tonometer contact and non contact.		
14					
15					

			Lensometer Revision		

11. Course Assessment
Grade Distribution out of 100: **Coursework:** 25 marks for theoretical + 15 marks for practical, **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks
12. Learning and Teaching Resources

Required Textbooks *(Prescribed curriculum, if available)*	Lectures
Main References (Sources)	Kanski, Basic and clinical science course, Clinical optics.
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

1. Course Title
optical instruments2
2. Course Code
OPE 18202
3. Academic Year / Type of Course
Second Course
4.Date of Description Preparation
2025/4/29
5.Available Attendance Mode
In person attendance
6. Total Credit Hours / Units6 .1
7 hours per week (2 theoretical and 5 practical) – Total units: 4
7. Course Coordinator (If more than one, list all
Name: Dr. Ahmed Rasool Noori **Email:** ahmed.noori76@yahoo.com**
1. Course Objectives

Course Objectives	1 The student should be familiar with all optical devices and their uses. 2 The student should be able to operate the devices and perform their maintenance.
2.Teaching and Learning Strategies	
Strategy	Delivering lectures using a variety of presentation methods.

1. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1 2	2		Revision		

3 4 5 6 7 8 9 10 11 12 13 14 15			Lensometer Fundus camera External eye photography Indirect ophthalmoscope Direct ophthalmoscope Corneal examination-Placido disc Corneal examination-keratometer Corneal examination-keratometer Corneal examination-vkg Corneal examination-specular microscopy Corneal examination-aesthesiometer corneal topographer corneal topographer Revision		

1. Course Assessment
Grade Distribution out of 100: **Coursework:** 25 marks for theoretical + 15 marks for practical, **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks

2. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	Lectures
Main References (Sources)	Kanski, Basic and clinical science course, Clinical optics
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

1. Course Title
squint 1
2. Course Code
SQU18301
3. Academic Year / Type of Course
First Course
4.Date of Description Preparation
2025/4/29
5. Available Attendance Mode
In person attendance
6. Total Credit Hours / Units6
6 hours per week (2 theoretical and 4 practical) – Total units: 4
7. Course Coordinator (If more than one, list all)
Name: Dr. Ahmed Rasool Noori **Email:** ahmed.noori76@yahoo.com**
8. Course Objectives

Course Objectives	1 The student should be able to identify strabismus, its types, methods of diagnosis, correction, and treatment. 2 The student should be able to recognize the forms of strabismus and understand how to examine and diagnose the patient.
9. Teaching and Learning Strategies .1	
Strategy	Delivering lectures using various presentation methods

1. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1			Anatomy and physiology of extra .ocular muscles		
2			Sensory physiology and pathology.		
3					
4			Retinal correspondence.		
5			Binocular eye movement.		
6		١١	Amblyopia 1.		
7			Amblyopia 2.		
8			Management of refractive errors in childhood		
9		١			
10		١	Introduction to strabismus.		
11			Laws of ocular motility.		
12			Esotropia 1. congenital		
13			Esotropia 2. accommodative		
14			Esotropia 3. Acquired non accommodative		
15			Esotropia 4. Incomitant		
			Revision		

2. Course Evaluation					
Grade Distribution out of 100: **Coursework:** 25 marks for theoretical + 15 marks for practical, **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks					
3. Learning and Teaching Resources					
Required Textbooks *(Prescribed curriculum, if available)*			Lectures		
Main References (Sources)			Kanski, Basic and clinical science course.		
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*					
Electronic References and Internet Resources					

Course Description Template

1. Course Title	
Squint 2	
2. Course Code	
SQU18302	
3. Academic Year / Type of Course	
Second Course	
4.Date of Description Preparation	
2025/4/29	
5. Available Attendance Mode	
In person	
6. Total Credit Hours / Units	
5 hours per week (1 theoretical and 4 practical) – Total units: 3	
7. Course Coordinator (If more than one, list all)	
Name: Dr. Ahmed Rasool Noori **Email:** ahmed.noori76@yahoo.com	
8. Course Objectives	
1 The student should be able to identify strabismus, its types, methods of diagnosis, correction, and treatment. 2 The student should be capable of recognizing the forms of strabismus and understanding how to examine and diagnose the patient.	Course Objectives
9. Teaching and Learning Strategies	
Delivering lectures using a variety of presentation methods.	Strategy

1. Course Structure .1

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1			Esotropia 5 Acute esotropia		
2			Esotropia 6. Surgical principles		
3			Exotropia 1.		
4			Exotropia 2. intermittent		
5			Exotropia 3 infantile		
6		\\	Exotropia 4. sensory		
7			Exotropia 5 surgical principles		
8			Pattern strabismus.		
9		\	Special motility disorders 1.		
10		\	Special motility disorders 2		
11			Special disorders 3		
12			Convergence insufficiency 1		
13			Convergence insufficiency 2.		
14			Convergence insufficiency 3		
15			Revision		

2. Course Assessment

Grade Distribution out of 100:
Coursework: 25 marks for theoretical + 15 marks for practical, **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks

3. Learning and Teaching Resources

Required Textbooks *(Prescribed curriculum, if available)*	Lectures
Main References (Sources)	Kanski, Basic and clinical science course.
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

1.Course Title
physiology of the eye and vision1
2. Course Code
PHE18201
3. Academic Year / Type of Course
First course
4. Date of Description Preparation

2025/4/29

5. Available Attendance Mode

In person attendance

6. Total Credit Hours / Units

6 hours per week (2 theoretical and 4 practical) – Total units: 4

7. Course Coordinator (If more than one, list all) .1

Name: Dr. Ahmed Rasool Noori
Email: ahmed.noori76@yahoo.com

8. Course Objectives

1 Understanding the structures of the eye and their functional parts. 2 Preparing the student with foundational knowledge to comprehend specialized courses based on physiology.	Course Objectives

1. Teaching and Learning Strategies

Strategy	Delivering lectures using a variety of presentation methods.

2. Course Structure .2

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1			Visual acuity		
2			Visual acuity		
3			Binocular vision		
4			Optics and refraction		
5			Optics and refraction		
6			Stereopsis		
7			Pupillary reflex		
8			Extrinsic muscle action		
9			Eye movement		
10			Cornea and sclera		
11			Cornea		
12			Cornea		
13			Aqueous humor		
14			Aqueous humor and IOP		
15			The lens		

3. Course Assessment

Grade Distribution out of 100:
Coursework: 25 marks for theoretical + 15 marks for practical, **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks

4. Learning and Teaching Resources

Required Textbooks *(Prescribed curriculum, if available)*	Lectures
Main References (Sources)	Kanski, Basic and clinical science course, The eye
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

1. Course Title					
Physiology of the eye and vision2					
2. Course Code					
PHE18202					
Academic Year / Type of Course					
Second Course					
4. Date of Description Preparation					
2025/4/29					
5. Available Attendance Mode					
In person					
6. Total Credit Hours / Units					
6 hours per week (2 theoretical and 4 practical) – Number of units: 4					
7. Course Coordinator (If more than one, list all					
Name: Dr. Ahmed Rasool Noori Email: ahmed.noori76@yahoo.com					
8. Course Objectives .					
Course Objectives	Understanding the structures of the eye and its functional components. Preparing the student's knowledge to comprehend specialized courses based on physiology.				
9.Teaching and Learning Strategies					
Strategy	Delivering lectures using a variety of presentation methods.				
10. Course Structure .1					
Week	**Hours**	**Intended**	**Unit / Topic Title**	**Learning**	**Assessment**

		Learning Outcomes		Method	Method
1			The lens		
2			The lens and accommodation		
3			Mechanism of accommodation		
4			Optics and refraction		
5			Lacrimal system and tears		
6			Vitreous anatomy		
7			Aging of vitreous		
8			Retina histology and function		
9			Retina		
10			Retina		
11			Color blindness		
12			High visual center		
13			Perimetry and visual field testing		
14			Perimetry and visual field testing		
15			Revision		

11. Course Assessment
Grade Distribution out of 100: **Coursework:** 25 marks for theoretical + 15 marks for practical, **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks

12. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	Lectures
Main References (Sources)	Kanski, Basic and clinical science course, The eye
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

38. Course Title
Squint 2
Course Code .11
SQU18400
40. Academic Year / Type of Course
2025-2024
41. Date of Description Preparation
2025-1-1
42. Available Attendance Mode
In person
43. Total Credit Hours / Units
6 hours

44. Course Coordinator (If more than one, list all)	
Name: Dr. Sama Mahmood Email: samaaalbaghdadi@gmail.com	
45. Course Objectives	
The program aims to teach the student about the different types of strabismus, how to diagnose it, and the principles of its treatment.	
1 Understanding the muscles and the nerves that innervate them, as well as their functions.	
2 Understanding the equipment required to diagnose trabismus and the conditions associated with it.	
3 Understanding the types of strabismus. 4 Understanding the fundamental principles for treating strabismus.	
46. Teaching and Learning Strategies	
:**Strategy**	1 Enabling the student to understand the function of the eye muscles and their innervating nerves. 2 Enabling the student to identify and use the devices used in diagnosing strabismus and its associated conditions. 3 Enabling the student to understand the principles of strabismus treatment using medical devices.
12. Course Structure	

10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit Name / Topic	Method of Learning	Assessment Method
.1		Study, knowledge, and practical application.	Convergence , examination by synoptophore	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.2		Study, knowledge, and practical application.	Convergence , examination by synoptophore	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.3		Study, knowledge, and practical application.	Heterophoria (definition , types, causes, symptoms)	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.4		Study, knowledge, and practical application.	Heterophoria (definition , types, causes, symptoms)	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.5		Study, knowledge, and practical application.	Heterophoria (diagnosis, treatment, orthoptic exercises)	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.6		Study, knowledge, and practical application.	Heterophoria (diagnosis, treatment, orthoptic exercises)	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.7		Study, knowledge, and practical application.	Concomitant squint	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.8		Study, knowledge, and practical application.	Concomitant squint	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.9		Study, knowledge, and practical application.	Esotropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.10		Study, knowledge, and practical application.	Esotropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.11		Study, knowledge, and practical application.	Non accommodative esotropia characters	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.12		Study, knowledge,	Non accommodative esotropia characters	Practical + Theoretical	Practical exams, theoretical exams,

		and practical application.			reports, and studies.
.13		Study, knowledge, and practical application.	Accommodative esotropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.14		Study, knowledge, and practical application.	Accommodative esotropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.15		Study, knowledge, and practical application.	Treatment of error of refraction and amblyopia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.16		Study, knowledge, and practical application.	Treatment of error of refraction and amblyopia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.17		Study, knowledge, and practical application.	Orthoptic treatment operation	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.18		Study, knowledge, and practical application.	Orthoptic treatment operation	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.19		Study, knowledge, and practical application.	Exotropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.20		Study, knowledge, and practical application.	Exotropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.21		Study, knowledge, and practical application.	Hypertropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.22		Study, knowledge, and practical application.	Hypertropia	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.23		Study, knowledge, and practical application.	Convergence insufficient	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.24		Study, knowledge, and practical application.	Convergence insufficient	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.25		Study,	Diagnosis of convergence	Practical +	Practical exams,

		knowledge, and practical application.	insufficiency	Theoretical	theoretical exams, reports, and studies.
.26		Study, knowledge, and practical application.	Diagnosis of convergence insufficiency	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.27		Study, knowledge, and practical application.	Paralytic squint	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.28		Study, knowledge, and practical application.	Paralytic squint	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.29		Study, knowledge, and practical application.	Investigation of ocular muscle palsy	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.
.30		Study, knowledge, and practical application.	Investigation of ocular muscle palsy	Practical + Theoretical	Practical exams, theoretical exams, reports, and studies.

48.Course Assessment	
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, and monthly exams.	
49. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	Kaniski, clinical ophthalmology
Main References (Sources)	
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

50. Course Title	
X-rays and ultrasound.	
51. Course Code	
XRE18400	
52. Academic Year / Type of Course	
2025-2024	
53. Date of Description Preparation	
2025-1-1	
54. Available Attendance Mode .13	
In person	
55.Total Credit Hours / Units	
6 hours	
56. Course Coordinator (If more than one, list all)	
Name: Dr. Sama Mahmood Email: samaaalbaghdadi@gmail.com	
57. Course Objectives	
Course Objectives	The program aims to teach the student about X-rays and ultrasound, their types, and how to use them for diagnosis.
1. Understanding the components and uses of the X-ray machine.	
2. Understanding the devices required to diagnose eye diseases, tumors, and injuries affecting the eye.	
3. Understanding the MRI (Magnetic Resonance Imaging) machine .	
58. Teaching and Learning Strategies	

Strategy	1- Enabling the student to..
1 Understanding the components and uses of the X-ray machine.	
2 Understanding the equipment required for diagnosing eye diseases, tumors, and eye injuries.	
3 Understanding the MRI (Magnetic Resonance Imaging) machine.	
4 Understanding the CT (Computed Tomography) scanner.	
5 Understanding the ultrasound machine.	
59.Course Structure	

11. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Method of Learning	Assessment Method
.31		Study, knowledge, and practical application.	Introduction to radiological	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.32		Study, knowledge, and practical application.	Standard orbital views	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.33		Study, knowledge, and practical application.	Standard orbital views	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.34		Study, knowledge, and practical application.	Radiological orbital anatomy	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.35		Study, knowledge, and practical application.	Radiographic changes seen with orbital pathology	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.36		Study, knowledge, and practical application.	Foreign body localization by plain x-ray film	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.37		Study, knowledge, and practical application.	Introduction to computed tomography of the orbit	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.38		Study, knowledge, and practical application.	Vascular lesions, inflammation and infections of the orbit by CT-scan	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.39		Study, knowledge, and practical application.	Vascular lesions, inflammation and infections of the orbit by CT-scan	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.40		Study, knowledge, and practical application.	Tumors of the optic nerve, orbital tumors (primary, secondary and metastasis) as seen by CT-scan	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.41		Study, knowledge, and practical application.	Tumors of the optic nerve, orbital tumors (primary, secondary and metastasis) as seen by CT-scan	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.

.42		Study, knowledge, and practical application.	Orbital trauma by CT-scan	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.43		Study, knowledge, and practical application.	Introduction to MRI of the orbit	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.44		Study, knowledge, and practical application.	Physical principles of MRI	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.45		Study, knowledge, and practical application.	Physical principles of MRI	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.46		Study, knowledge, and practical application.	MRI systems (units, surface coils, site selection)	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.47		Study, knowledge, and practical application.	MRI systems (units, surface coils, site selection)	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.48		Study, knowledge, and practical application.	Clinical applications of MRI and orbital diseases	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.49		Study, knowledge, and practical application.	Clinical applications of MRI and orbital diseases	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.50		Study, knowledge, and practical application.	Trauma and tumors of the orbit as seen by MRI	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.51		Study, knowledge, and practical application.	Trauma and tumors of the orbit as seen by MRI	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.52		Study, knowledge, and practical application.	Intraocular tumors as seen by MRI	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.53		Study, knowledge, and practical application.	Advantages and disadvantages of MRI over CT-scan	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.54		Study, knowledge, and practical application.	Advantages and disadvantages of MRI over CT-scan	Practical + Theoretical	Practical exams, theoretical exams, reports, and research

					studies.
.55		Study, knowledge, and practical application.	Introduction to diagnostic orbital ultrasonography	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.56		Study, knowledge, and practical application.	Introduction to diagnostic orbital ultrasonography	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.57		Study, knowledge, and practical application.	A-scan and B-scan ultrasonography	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.58		Study, knowledge, and practical application.	A-scan and B-scan ultrasonography	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.59		Study, knowledge, and practical application.	Indications of orbital ultrasonography, clinical applications and biometry	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.
.60		Study, knowledge, and practical application.	Indications of orbital ultrasonography, clinical applications and biometry	Practical + Theoretical	Practical exams, theoretical exams, reports, and research studies.

60. Course Assessment	
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, and monthly exams.	
6**1**. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	Kaniski, clinical ophthalmology
Main References (Sources)	Imaging technique
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

62. Course Title6
Arabic Language
63. Course Code
ARL18102
64. Academic Year / Type of Course
Second semester / First stage (or First year)
65. Date of Description Preparation
2025/3/20
66. Available Attendance Mode
67. Total Credit Hours / Units
6 hours per week (2 theoretical and 4 practical) – Number of units: 4
68. Course Coordinator (If more than one, list all)
Name: Dr. Ahmed Rasool Noori Email: ahmed.noori76@yahoo.com
69. Course Objectives

Course Objectives	1. Getting acquainted with the basics of the Arabic language 2. Introducing learners to common mistakes 3. Proper use of punctuation marks

70. Teaching and Learning Strategies	
Strategy	Lectures are delivered in two parts: The first using PowerPoint presentations • The second through explanation on the whiteboard

Course Structure .14

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	طريقة التعلم	طريقة التقييم
1	1/15	Understanding the basics of the Arabic language Introducing learners to common mistakes Proper use of punctuation	Subjects 15	Delivering lectures using PowerPoint presentations and explaining on the whiteboard.	

		marks			

72. Course Assessment
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, etc., Coursework (Saa'i): 30 marks, Final Exam: 70 marks

73. Learning and Teaching Resources .15	
Required Textbooks *(Prescribed curriculum, if available)*	Lectures and activities within the lessons.
Main References (Sources)	Grammar
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	Ibn Al-Razi Al-Ajurrumiyya
Electronic References and Internet Resources	Scientific research

Course Description Template

74.Course Title
Principles of Chemistry
75. Course Code
CHM18101
76. Academic Year / Type of Course
First Semester / First Year – 2024/2025
77.Date of Description Preparation

2025/5/21
78.Available Attendance Mode
In person
79. Total Credit Hours / Units
2 theoretical hours / 4 practical hours
80. Course Coordinator (If more than one, list all)
Name: Asst. Prof. Faiza Hazem Hassan Email: dr.faizahazem@uruk.edu.iq
81. Course Objectives

Course Objectives	1. Understanding the basics of chemistry and chemical structures 2. Understanding biochemistry and the chemical components of the human body

82. Teaching and Learning Strategies .16

Strategy	Delivering lectures, using explanation and clarification methods along with discussion and dialogue, and conducting descriptive (narrative) assessments.

83. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1 2 3			Laboratory instruction, safety rules and equipment Glassware laboratory Practice with balances and different type of apparatus (centrifuge, hotplate, water bath (and glassware Prepare solution from solids and liquids (Volumetric analysis (titration Titration of hydrochloric acid with sodium hydroxide solution Determination of acetic acid in vinegar Titration of potassium permanganate solution with sodium oxalate.		

4			Measuring and Recording Temperature Melting point and Boiling point Chemical and physical properties		
5			Term 1 Exam		
6			A scheme for the identification of the carbohydrates		
7			Measuring the pH and buffer solution		
8			Carbohydrates (monosaccharides) Molish test, Barfoed test, Benedict test, Iodine test, bile test and seliwanoff's test		
9			Hydrolysis of disaccharides and Hydrolysis of polysaccharides Qualitative Analysis of Proteins Biuret test, Xanthoproteic Test, Ninhydrin test, Molish test, and Sakaguchi test and Lead Sulfide test		
10			.Precipitation of proteins Qualitative analysis of cholesterol (Salkowski test and Liebermann-burchard (test		
11			Iodine test to distinguish between saturated and unsaturated compounds .		
12			Term 2 Exam Final Exams		
13					
14					
15					

84. Course Assessment	
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, and monthly exams.	
85. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available*	1. Applied Biochemistry Textbook
Main References (Sources)	1. Fundamentals of Analytical chemistry by Skoog and West 8th.ed.(2013) 2. Lippincott Biochemistry 6th Edition (2014) 4.Modern Analytical Chemistry-David
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	1. Harvey (2010)
Electronic References and Internet Resources	

Course Description Template

86. Course Title	
Anatomy	
87. Course Codec	
AHN18101	
88. Academic Year / Type of Course	
2025 – 2024	
89. Date of Description Preparation	
2025– 2024	
90. Available Attendance Mode	
91. Total Credit Hours / Units	
2 theoretical hours and 5 practical hours	
92. Course Coordinator (If more than one, list all)	
Name: Asst. Lecturer Ahmed Fadhil Shanan Email: ahmed.fadhil.1983.1983@gmail.com	
93. Course Objectives	
Course Objectives	1 The student should be familiar with the anatomical parts of the eye 2 Understand their locations and their venous and arterial blood supply 3 Understand the incoming and outgoing nerve signals related to them
94. Teaching and Learning Strategies	

Strategy	Delivering lectures using various presentation methods: PowerPoint, videos

95. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1st		Introduction to anatomy			
2nd		Anatomical terms			
3rd		,anatomical plains ,anatomical directions			
4th		Types of studying anatomy , anatomical region			
5th		-basic anatomic structures			
6th		Types of tissue -cell			
7th		-the bones and joints -skeletal system			
8th		-appendicular skeleton			
9th		-joints			
10th		-skull			
11th		Thoracic cage			
12th		-vertebral column			
13th		-circulatory system and			
14th		blood supply			
15th		-nervous system			
16th		-central nervous system			
17th		-anatomy of the eye -lacrimal apparatus			
18th		-the orbit			
19th		-muscles of the orbit			
20th		-nerves of the orbit			
21th		Layers of the eye			
22th		-funvtion of each layer			
23th		of the eye			
24th		-cornea			
25th		-anterior chamber of the eye			
26th		-the uveal tract -the ciliary body -lens -the retina -blood and nerv suppluy			
27th					

96. Course Assessment

Grade Distribution out of 100: **First Semester:** 20 marks (12 theoretical + 8 practical), **Second Semester:** 20 marks (12 theoretical + 8 practical), **Total Coursework (Saa'i):** First Semester Grade + Second Semester Grade, **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks	
97. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	Lectures and activities within the lessons
Main References (Sources)	Snell textbook of anatomy
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	Medscape .uptodate

Course Description Template

98. Course Title	
Medical and optical physics 2	
99. Course Code	
100. Academic Year / Type of Course	
First Year / Second Semester 2024–2025	
101. Date of Description Preparation	
2024-2-2	
102. Available Attendance Mode	
In Person	
103. Total Credit Hours / Units	
Total: 8 hours – 3 theoretical – 5 practical – Number of units: 5	
104. Course Coordinator (If more than one, list all)	
Name: Assistant Lecturer Ibrahim Abdul Kareem Email: Ibrahim.ab.ali@uruk.edu.iq	
105. Course Objectives	
Course Objectives	**1** By the end of the semester, the student should be able to understand visual phenomena in physics. 2 Understand the physical functioning of the eye. 3 Learn about the telescope device, its components, purpose, and applications. 4 Understand the refractive indices of lenses, mirrors, and parts of the eye. 5 Understand the concept of renewable energies through solar cell technology. .
106. Teaching and Learning Strategies	
Strategy	Discussion and dialogue strategy Cooperative learning strategy Lecture strategy: delivered through various methods

107. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1					
2			Schematic and Reduced Eye (Gullstrand Schematic Eye, Listing reduced eye)		
3			. Eye function (myopia, hypermetropia, astigmatism)		
4			Telescope: definition, purposes, types, design, construction		
5			Retinal image size and formation		
6			Total internal reflection		
7			Refractive index of: Lens, Mirrors, Eye structure		
8					
9			Coherent sources, single slit, double slit, effect on the eye		
10			Solar energy technology, availability of solar radiation		
11					
12			Photovoltaic devices, dye-sensitized solar cells		
13			Photo electrochemical cells for hydrogen production		
14			Nanotechnology in Renewable Energy Systems		
15			Energy Sector Products Using Nanomaterials		
			Nanotechnology for Hydrogen Production		
			Nanomaterials for CO_2 Conversion		

			Nanomaterials and Direct Air Capture of CO_2		

108. Course Assessment
Grade Distribution out of 100: **Coursework:** 25 marks (theoretical) + 15 marks (practical), **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks
1**09**. Learning and Teaching Resources

Required Textbooks *(Prescribed curriculum, if available)*	Lectures and activities within the course
Main References (Sources)	IOMP, Paperpile, Citationsy
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	Google scholar, chat gpt , deep seek

Course Description Template

110. Course Title
Laser in ophthalmology
111. Course Code
112. Academic Year / Type of Course
Second Semester – Second Stage (Year)
113. Date of Description Preparation
2025-1-2
114. Available Attendance Mode
In person
115. Total Credit Hours / Units
Total: 4 hours – 1 theoretical – 3 practical – Number of units: 2
116. Course Coordinator (If more than one, list all) .i
Name: Asst. Lecturer Ibrahim Abdul Kareem Email: Ibrahim.ab.ali@uruk.edu.iq
117. Course Objectives

Course Objectives	1 The student should be familiar with laser interaction with living cells for each type of laser. 2 Understand the types of lasers used in the treatment of eye diseases. 3 Understand the uses of lasers for each medical condition and know the properties of each.

118. Teaching and Learning Strategies

Strategy	1 Lecture strategy: delivering content using various methods 2 Dialogue and discussion strategy 3 Cooperative learning strategy

119. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1			Lasers definition characteristics applications in eye		
2			Laser in medicine Advantage disadvantage		
3			Types of Laser in medicine		
4			Excimer lasers (LASIK) Double frequency Nd/yag laser		
5					
6					
7					
8			Micro plus laser		
9			Femtosecond laser		
10			Laser Safety		
11			Laser tissue interaction		
12			Laser tissue interaction		
13					
14			Laser in diagnostics (OCT)		
15			Confocal scanning laser ophthalmoscopy (CSLO)		
			Laser doppler flowmetry		
			Photo Refractive keratectomy (PRK)		
			Laser treatment for eyes (tissues and diseases)		
			Retinal Laser treatment		

			Revision		

120. Course Assessment	
Grade Distribution out of 100: **Coursework:** 25 marks (theoretical) + 15 marks (practical), **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks	
121. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	Lectures and activities included in the curriculum
Main References (Sources)	Step by step laser in ophthalmology Laser application , manual in ophthalmology
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	Google scholar, chat gpt , deep seek

Course Description Template

122. Course Title	
Laser treatment of eye diseases	
123. Course Code	
124. Academic Year / Type of Course	
First Semester – Third Stage (Year)	
125. Date of Description Preparation	
2024-2-2	
126. Available Attendance Mode	
In person	
127. Total Credit Hours / Units 127	
Total: 3 hours – 1 theoretical – 2 practical – Number of units: 2	
128. Course Coordinator (If more than one, list all)	
Name: Asst. Lecturer Ibrahim Abdul Kareem Email: Ibrahim.ab.ali@uruk.edu.iq	
129. Course Objectives	
Course Objectives	.2 The student should be familiar with the interaction of lasers with living cells for each type of laser. .3 Understand the types of lasers used in the treatment of eye diseases. .4 Understand the applications of lasers

	for each medical condition and know the properties of each type.

130. Teaching and Learning Strategies

Strategy	1 Lecture strategy: 2 presenting the material using diverse methods 3 Dialogue and discussion strategy 4.Cooperative learning strategy

131. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1					
2			Laser in medicine • Advantage • disadvantage		
3			Laser in eye treatment (diseases in the eye, method of (the treatment.		
4					
5					
6			Laser effects on biological tissue,(thermal effect), (chemical, Mechanical effects).		
7					
8					
9					
10			Co2 Laser (wave length = 10.6 nm).		
11			Excimer Laser (wave length (λ))		
12					
13			ND- YAG Laser (Define, λ=1064 nm).		
14					
15			Properties of Diode Laser λ=810 nm to 110 nm.		
			Side effects of Laser eye operation Laser treatment		

			(Define retina with properties). Argon Laser (λblue = 488 nm and λgreen = 514 nm). Revision		

132. Course Assessment
Grade Distribution out of 100: **Coursework:** 25 marks (theoretical) + 15 marks (practical), **Final Practical Exam:** 25 marks, **Final Theoretical Exam:** 35 marks

133. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	Lectures and activities included in the course
Main References (Sources)	Step by step laser in ophthalmology Laser application , manual in ophthalmology
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	Google scholar, chat gpt , deep seek

Course Description Template

134. Course Title
Medical Terminology (Three Sections: Optics, Cosmetics and Laser, Therapeutic Nutrition
135. Course Code 1
136. mic Year / Type of Course Academic
First semester: Department of Nutrition and Optics Second semester: Department of Cosmetics and Laser First: Department of Nutrition and Optics20Academic Year: 2024–2025 Second semester: Department of Cosmetics and Laser Academic Year: 2024–2025
137. Date of Description Preparation
2025\5\12
138. Available Attendance Mode
In person
139. Total Credit Hours / Units
32 hours for each section / 2 units for each section
140. Course Coordinator (If more than one, list all)
Name: Asst. Lecturer Sara Hashem Zghair Email: sara.h.zghair@uruk.edu.iq
141. Course Objectives

Course Objectives	1 **General Objective**: The student will become familiar with general and medical terminology. 2 **Specific Objective**: To learn medical terms, especially those used by the student during the academic stage and related to their specialization

142. Teaching and learning Strategies

Strategy	1. Teaching the curriculum theoretically by presenting the material to students while encouraging their active participation. 2. Engaging students in applying the material. Conducting implicit (formative) assessments during the lecture. 3.Administering a test on the material in the lecture following its explanation, to reinforce and solidify the content, and to assess the effectiveness of the material for students

143. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1	222		Introduction- structural analysis- basic rules of	Theoretical explanation	Discussion and examination
	2		medical word building		
2	2		Major suffixes: (1) suffixes denoting a state or condition		
3			Major suffixes: (1) suffixes denoting a state or condition		Discussion and examination
4			Major suffixes: (2) suffixes denoting medical actions		Discussion and examination
5			Prefixes: (4) Prefixes of size, time, place, roots, and word terminals.		Discussion and examination
6			Terms concerning the body as a whole Terms concerning oncology		Discussion and examination
7			Terms concerning the skin and its appendages Terms concerning the gastrointestinal tract		Discussion and examination
8			Terms concerning the respiratory system and cardiovascular system		
			Terms concerning the endocrine system		

			Terms concerning the blood and lymphatic system		Discussion and examination
9			Terms concerning the musculoskeletal system& nervous system		Discussion and examination
10			Terms concerning the special senses		
11			Introduction- structural analysis- basic rules of medical word building		Discussion and examination
12					
13					Discussion and examination
14					Discussion and examination
					Discussion and examination
15					
					Discussion and examination

144. Course Assessment
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, and monthly exams.
1**45**. Learning and Teaching Resources

Required Textbooks *(Prescribed curriculum, if available)*	
Main References (Sources)	
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

146. Course Title
Drugs
147. Course Code
148. Academic Year / Type of Course
"Second Semester, Optics Department (2024–2025)

149. Date of Description Preparation
2025\5\12
150. Available Attendance Mode
In Person Attendance
151. Total Credit Hours / Units
32 divided by 4 units
:Course Coordinator (If more than one, list all)
Name: Assistant Lecturer Sara Hashem Zghair **Email:** sara.h.zghair@uruk.edu.iq
153. Course Objectives

Course Objectives	**General Objective:** The student will become familiar with pharmacology and toxicology. specific effects of toxins on the eye **Specific Objective:** The student will learn about the uses of medications related to eye diseases and the
154. Teaching and Learning Strategies	
Strategy	**Teaching Methodology:** 1. The curriculum is delivered theoretically by presenting the material to students while encouraging their participation. 2. Students are engaged in applying the material practically. 3. Implicit (formative) assessments are conducted during the lecture. 4. A follow-up test on the material is conducted in the lecture following the explanation, to reinforce and confirm the content as well as to evaluate the effectiveness of the material for the students.

155. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1	4		Principles of Drug Therapy	Theoretical Lecture	Discussion and Exam
	2				Discussion and Exam
2	2		Drugs Affecting the Autonomic Nervous System – I		Discussion and Exam
3			Drugs Affecting the Autonomic Nervous System – II		Discussion and Exam Discussion and Exam
4			Drugs Affecting the Central Nervous System		Discussion and Exam Discussion and Exam
5			Drugs Affecting the		

6			Cardiovascular System – I Drugs Affecting the Cardiovascular System – II		Discussion and Exam
7			Drugs Affecting the Endocrine System Chemotherapeutic Drugs – I		Discussion and Exam
8			Chemotherapeutic Drugs – II		Discussion and Exam Discussion and Exam
9			Anti-inflammatory, Antipyretic, and Analgesic Agents I		Discussion and Exam
10			Anti-inflammatory, Antipyretic, and Analgesic Agents II Gastrointestinal and Antiemetic Drugs I		Discussion and Exam Discussion and Exam
11			Gastrointestinal and Antiemetic Drugs II		Discussion and Exam Discussion and Exam
12			Drugs for Disorders of the Respiratory System		Discussion and Exam
13			Drugs of Abuse		
14			Principles of Drug Therapy		
15					
156. Course Assessment					
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, and monthly exams.					

157. Learning and Teaching Resources	
Required Textbooks *(Prescribed curriculum, if available)*	
Main References (Sources)	
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	
Electronic References and Internet Resources	

Course Description Template

1.Course Title					
Professional Ethics – Department of Optics					
2.Course Code					
3. Academic Year / Type of Course					
First and Second Semesters, 2024–2025					
4. Date of Description Preparation					
2025\5\12					
5. Available Attendance Mode					
In Person in the class					
6. Total Credit Hours / Units6					
32 / 2 Units					
7. Course Coordinator (If more than one, list all)					
Name: Asst. Lecturer Sara Hashim Zghair **Email:** sara.h.zghair@uruk.edu.iq					
8.Course Objectives					
Course Objectives					
9. Teaching and Learning Strategies					
:**Strategy**	1. Teaching the curriculum theoretically by presenting the material to students while encouraging their active participation. 2 Engaging students in applying the course content. 3 Conducting implicit assessments during the lecture. 4 Administering assessments in the lecture following the content delivery to reinforce and solidify the material, as well as to evaluate its effectiveness for students.				
10. Course Structure					
Week	**Hours**	**Intended Learning Outcomes**	**Unit / Topic Title**	**Learning Method**	**Assessment Method**
1	22 **2**22 2			Theoretical Explanation	Discussion and Examination Discussion and

2					Examination
3					Discussion and Examination
4					Discussion and Examination
5					Discussion and Examination
6					Discussion and Examination
7					Discussion and Examination
8					Discussion and Examination
9					Discussion and Examination
10					Discussion and Examination
11					Discussion and Examination
12					Discussion and Examination

13 14 15					Discussion and Examination Discussion and Examination
Course Assessment .1					
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, and monthly exams.					
3. Learning and Teaching Resources .2					
Required Textbooks *(Prescribed curriculum, if available)*					
Main References (Sources)					
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*					
Electronic References and Internet Resources					

Course Description Template

Course Title	
Computer Application	
Course Code	
Academic Year / Type of Course	
First Semester / Second Year / 2023–2024	
Date of Description Preparation	
18/4/2025	
Available Attendance Mode	
In person	
Total Credit Hours / Units	
30 Practical / 15 Theoretical / 2 Units	
Course Coordinator (If more than one, list all)	
Name: Asst. Lecturer Mumin Ibrahim Jameel **Email: mumin.i.jameel@uruk.edu.iq**	
Course Objectives	
Course Objectives	· To understand the fundamentals and components of computers and their types. · To become familiar with the concept of the Internet and its applications (e-mail, web

	browsers). · To equip students with the skills to create, edit, and print presentations. · To use spreadsheets and perform mathematical operations.

Teaching and Learning Strategies

Strategy:	Theoretical instruction through presenting the material to students and encouraging student participation. Practical instruction using computers. Engaging students in hands-on application of the material on the computer. Conducting implicit (formative) assessments during lectures. Administering follow-up assessments in the lecture following the explanation of the material to reinforce understanding and evaluate the effectiveness of the content for students.

Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1	3	Introduction to Computer	Concepts of Hardwae and Software with their components; Concept of Computing,	Theoretical and Practical Explanation	Discussion and Examination
2	3	Computer Components	Computer Portions، Hardware Parts, 1O Units, Memory Types.	Theoretical and Practical Explanation	Discussion and Examination
3	3	Computer Components (Cont.)	Basic CPU Components, Computer Ports,	Theoretical Explanation	Discussion and Examination
4	3	perating System and Graphical User Interface	Operating System; Basics of Common Operating Systems; The User Interface, Using Mouse Techniques	Theoretical and Practical Explanation	Discussion and Examination
5	3	Operating System and Graphical User Interface	Use of Common Icons, Status Bar, Using Menu and Menu-selection, Concept of Folders.	Theoretical and Practical Explanation	Discussion and Examination
6	3	Word Processing	Word Processing Basics; Basic Features of Word Processors, Opening and Closing of documents, Text creation and Manipulation	Theoretical Explanation	Discussion and Examination

7	3		Formatting Text and Paragraphs, Using Templates for Document Creation.	Theoretical and Practical Explanation	Discussion and Examination
8	3	Word Processing (Cont.)	Creating and Managing Tables, Utilizing Styles and Themes, Spell Check Jand Grammar Ťools, Using Headers and Footer		
9	3	Spread Sheet	Introduction to Spreadsheet Software, Creating and Formatting Worksheets.	Theoretical and Practical Explanation	Discussion and Examination
10	3	Spread Sheet (Cont.)	Sorting and Filtering Data, Using Formulas and Functions.	Theoretical Explanation	Discussion and Examination
11	3	Presentation Software	Using Formulas and Functions, Using Pivot Tables for Data Analysis، Data Validation and Error Checking, Data Visualization Creating Charts and Graphs.	Theoretical Explanation	Discussion and Examination
12	3	Presentation Software (Cont.)	Introduction to Presentation Software, Overview of Popular Presentation Tools، creating a New Presentation, Using Templates and Themes, Inserting and Formatting Text and Images، Transition and Animation Effects.	Theoretical Explanation	Discussion and Examination
13	3	Introduction to Internet and Web Browsers	Using Speaker Notes and Timers, , Advanced Features: Hyperlinks and Action Buttons, Troubleshooting Common Presentation Issues, Future Trends in Presentation Technology.	Theoretical Explanation	Discussion and Examination
		Introduction	Computer networks Basic; LAN, WAN,; Concept of		

14 **15**	3 3	to Internet and Web Browsers Email Introduction to Cloud	Internet and its Applications; connecting to internet Woria Wide Web; Web Browsing sofiware's، Search Engines: Understanding UR. Domain name.; IP Address Basics of electronic mail; Getting an email | account; Sending and receiving. Computing and Services: Definition of Cloud Computing and its concept، Cloud-Based Ofice Suites Ofice 365 and Google MWorkspace), Google Docs, Google Sheets, Google Drive Google Meet.		
Course Assessment					
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, and monthly exams					
2. Learning and Teaching Resources					
Required Textbooks *(Prescribed curriculum, if available)*					
Main References (Sources)			**Graham Brown, David Watson, "Cambridge IGCSE Information and Communication (2020) Technology", 3rd Edition** **Alan Evans, Kendall Martin, Mary A nne Poatsy, .2 "Technology In A ction Complete", 16th Edition (2020).**		
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*					
Electronic References and Internet			https://learn.microsoft.com/en-us/training/modules/create-		

Resources	/presentations-powerpoint

Course Description Template

Course Title	
Computer Applications	
Course Code:	
Academic Year / Type of Course:	
First Semester / First Stage / Academic Year 2024–2025	
Date of Description Preparation:	
18/4/2025	
Available Attendance Mode:	
In Person	
Total Credit Hours / Units:	
30 Practical Hours / 15 Theoretical Hours / 2 Credit Units	
Course Coordinator (If more than one, list all):	
Name: Asst. Lecturer Mo'men Ibrahim Jameel Email: mumin.i.jameel@uruk.edu.iq	
Course Objectives	
Course Objectives	1 To introduce students to the fundamentals and components of computers, as well as their types. 2 To provide a comprehensive understanding of the Internet and its applications (e.g., email, web browsers). 3 To equip students with the skills to create, edit, and print presentation slides. 4 To enable students to use spreadsheets and perform basic calculations
Teaching and Learning Strategies	
Strategy	**Theoretical instruction** is delivered by presenting the material to students while encouraging active participation. **Practical instruction** involves hands-on training using computers. Students are required to **apply the material practically** on the computer. **Formative assessments** are conducted during lectures. **Follow-up assessments** are administered in the lecture following the theoretical explanation to reinforce learning and evaluate the effectiveness of the material.
Course Structure	

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
First	3	Introduction to Computer	Concepts of Hardwae and Software with their components; Concept of Computing,	Theoretical and Practical Explanation	Discussion and Examination
Second	3	Computer	،Computer Portions	Theoretical and	Discussion and

Third		Components	Hardware Parts, 1O .Units, Memory Types	Practical Explanation	Examination
Fourth	3	Computer Components (Cont.)	Basic CPU Components, Computer Ports,	Theoretical Explanation	Discussion and Examination
Fifth	3	perating System and Graphical User Interface	Operating System; Basics of Common Operating Systems; The User | Interface, Using Mouse Techniques	Theoretical and Practical Explanation	Discussion and Examination
Sixth	3	Operating System and Graphical User Interface	Use of Common Icons, Status Bar, Using Menu and Menu-selection, Concept of Folders .	Theoretical Explanation	Discussion and Examination
Seventh	3	Word Processing	Word Processing Basics; Basic Features of Word Processors, Opening and Closing of documents, Text creation and ؛Manipulation	Theoretical Explanation	Discussion and Examination
Eighth	3	Word Processing (Cont.)	Formatting Text and Paragraphs, Using Templates .for Document Creation	Theoretical and Practical Explanation	Discussion and Examination
Ninth	3	Spread Sheet	Creating and Managing Tables, Utilizing Styles and Themes, Spell Check Jand Grammar Ťools, Using Headers and Footer	Theoretical and Practical Explanation	Discussion and Examination
Tenth	3	Spread Sheet (Cont.)	Introduction to Spreadsheet Software, Creating and .Formatting Worksheets Sorting and Filtering Data, Using Formulas and .Functions	Theoretical Explanation	Discussion and Examination
Eleventh					

	3		Using Formulas and Functions, Using Pivot Tables for Data Analysis, Data Validation and Error Checking, Data Visualization Creating Charts and Graphs.	Theoretical Explanation	Discussion and Examination
Twelfth		Presentation Software		Theoretical Explanation	Discussion and Examination
Thirteenth	3		Introduction to Presentation Software, Overview of Popular Presentation Tools,	Theoretical Explanation	Discussion and Examination
Fourteenth		Presentation Software (Cont.)	creating a New Presentation, Using Templates and Themes, Inserting and Formatting Text and Images,	Theoretical Explanation	Discussion and Examination
Fifteenth	3		Transition and Animation Effects.	Theoretical Explanation	Discussion and Examination
	3	Introduction to Internet and Web Browsers	Using Speaker Notes and Timers, , Advanced Features: Hyperlinks and Action Buttons, Troubleshooting Common Presentation Issues, Future Trends in Presentation Technology.		
	3	Introduction to Internet and Web Browsers			
	3	Email	Computer networks Basic; LAN, WAN,; Concept of Internet and its Applications; connecting to internet		
	3	Introduction to Cloud	Woria Wide Web; Web Browsing sofiware's, Search Engines: Understanding UR. Domain name; IP Address.		

			Basics of electronic mail; Getting an email | account; Sending and .receiving :Computing and Services Definition of Cloud Computing and its ،concept Cloud-Based Ofice Suites Ofice 365 and Google MWorkspace), Google Docs, Google Sheets, Google Drive Google Meet		
Course Assessment					
Grade Distribution (out of 100): Based on assigned student tasks such as daily preparation, regular quizzes (written and oral), monthly and written exams, reports, and other activities.					
Learning and Teaching Resources			Graham Brown, David Watson, "Cambridge IGCSE Information and (2020) Communication, Technology", 3rd Edition Alan Evans, Kendall Martin, Mary A nne Poatsy, "Technology In .2 A ction Complete 16th Edition (2020).		
Recommended Supplementary Books and References ***(e.g., scientific journals, reports, etc.)***					
Electronic References and Internet Resources ***(relevant websites, online databases, and digital learning platforms)***			https://learn.microsoft.com/en-us/training/modules/create-/presentations-powerpoint		

Course Title
طرائق بحث
:Course Code
Academic Year / Type of Course
Second Semester / Third Stage / Academic Year 2024–2025
Date of Description Preparation
2/5/2025
Available Attendance Mode
In-Person Lectures
Total Credit Hours / Units
2 Theoretical Hours / 2 Credit Units
Course Coordinator (If more than one, list all)
Name: Asst. Lecturer Ruqayya Luay Mohammed Shamsuddin **Email:** Ruqyh.oglu@gmail.com
Course Objectives

Course Objetives	**Specific Objectives:** 1. To enable the student to identify the various types of studies, understand how they are conducted, recognize their objectives, and address potential obstacles in each type. 2. To familiarize the student with different research models and how to perform statistical analysis.
Teaching and Learning Strategies	
Strategy	**Theoretical instruction** is delivered by presenting the material to students while encouraging active participation. Students are required to **apply the material** by designing a scientific research project. **Formative assessments** are conducted during the lecture. **Follow-up assessments** are administered in the lecture following the explanation to reinforce the material and evaluate students' understanding and the effectiveness of the content.

Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method
1	2	Research; definitions, characteristics, and types.	Research Methods	Theoretical Explanation	**Discussion and Examination**
2	2	Principles of research		Theoretical Explanation Theoretical	**Discussion**

3	2	Scientific Methods.		Explanation Theoretical	**Discussion**
4	2	Materials and Methods.		Explanation	**and Examinatio**
5	2	Methods of Data		Theoretical Explanation	**n Discussion**
6	2	Collection Analytic studies.		Theoretical Explanation	**Discussion and Examinatio**
7	2	Variables		Theoretical Explanation	**n Discussion and**
8	2	Classification of research.		Theoretical Explanation	**Examinatio n**
9	2	Intervention studies(experimental).		Theoretical Explanatio Theoretical	**Discussion and Examinatio n**
10	2	Pilot study		Explanation Theoretical	**Discussion and**
11	2	Cohort study		Explanation Theoretical	**Examinatio n**
12	2	ntroduction and literature review		Explanation Theoretical	**Discussion and**
13	2	Literature review in research project.		Explanation	**Examinatio n**
14	2	Research proposal protocol.		Theoretical Explanation Theoretical	**Discussion and Examinatio n**
15	2	Research Problem Formation.		Explanation	**Discussion and Examinatio n Discussion and Examinatio n**

					Discussion and Examination **Discussion and Examination** **Discussion and Examination** **Discussion and Examination** **Discussion and Examination**
Course Assessment					
Grade Distribution (out of 100): Based on student-assigned tasks such as daily preparation, quizzes (written and oral), monthly and written exams, reports, and other related activities.					
Learning and Teaching Resources					
Required Textbooks ***(Prescribed curriculum, if available)***					
Main References					https://www.slideshare.net/collinsbrobbey/sample-studyhttp://www.socscidiss.bham.ac.uk/methodologies.html
Recommended Supplementary Books and References ***(e.g., scientific journals, reports, etc.)***					
Electronic References and Internet Resources					

1. Course Title	
Optical Devices 3	
2. Course Code	
3. Academic Year / Type of Course	
2025-2024	
4.0 Date of Description Preparation	
2025/10/10	
5.0 Available Attendance Mode	
In Person	
6.0 Total Credit Hours / Units	
30/120	
7.0 Course Coordinator (If more than one, list all .	
Name: Muhaymin Sameer Aref **Email:** mohaymin.s.arif@uruk.edu.iq	
8.0 Course Objectives	
Course Objectives	**General Objective:** To ensure the student is knowledgeable about all optical devices and their uses. **Specific Objective:** To enable the student to operate the devices and understand how to maintain them.
9.0 Teaching and Learning Strategies	
:**Strategy**	1 Direct Guidance and Follow-up 2 Creating Positive Role Models Among Students 3 Theoretical Exams 4 Assignments 5 Practical Work

10. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method

1. Course Assessment
Grade Distribution (out of 100): Based on tasks assigned to the student, such as daily preparation, regular quizzes (oral and written), monthly and written exams, reports, and other related activities.
1**.** Learning and Teaching Resources

Recommended Supplementary Books and References *(e.g., scientific journals, reports, etc.)*	Text book of visual science and clinical optometry By Bikas Bhattacharyya
Electronic References and Internet Resources *(relevant websites, online databases, and digital learning platforms)*	Clinical pearls for optometry By Roger F. Filips
Learning and Teaching Resources	Optometry magazines of American

	ophthalmology and optometry academy
Recommended Supplementary Books and References *(e.g., scientific journals, reports, etc.)*	

.1	4	الدراسة والمعرفة والتطبيق العملي	**Colour vision test: Ishihara, hardy – Rand-Ritter.**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.2	4	الدراسة والمعرفة والتطبيق العملي	**Colour vision test: city university, farn sworth-munsell 100 hve-**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.3	4	الدراسة والمعرفة والتطبيق العملي	**Contract sensitivity, The Peli-roboson contrast sensitivity letter**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.4	4	الدراسة والمعرفة والتطبيق العملي	Amsler grid .	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.5	4	الدراسة والمعرفة والتطبيق العملي	Dark daptometery: definition, ıdication, Gold Mann-weeks daptometery.	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.6	4	الدراسة والمعرفة والتطبيق العملي	**Dark adaptometery: sensitivity curve, cone branch, rod break, rod branch branch**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.7	4	الدراسة والمعرفة والتطبيق العملي	**Orthoptic examination instruments, haloscope, home devices.**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.8	4	الدراسة والمعرفة والتطبيق العملي	**Bagolini striated glasses.**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.9	4	الدراسة والمعرفة والتطبيق العملي	**Synaptophore**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.10	4	الدراسة والمعرفة والتطبيق العملي	**Synaptophore**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.11	4	الدراسة والمعرفة والتطبيق العملي	**Maddox wing , Maddox rod**	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.12	4	الدراسة والمعرفة والتطبيق العملي	Exophthalmo meter	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات

No.

13

.26	4	الدراسة والمعرفة والتطبيق العملي	V.E.P	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.27	4	الدراسة والمعرفة والتطبيق العملي	YAG Laser	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.28	4	الدراسة والمعرفة والتطبيق العملي	Argo Laser	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.29	4	الدراسة والمعرفة والتطبيق العملي	Gonios cope	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات
.30	4	الدراسة والمعرفة والتطبيق العملي	Revision	عملي + نظري	الاختبارات العملية والاختبارات النظرية والتقارير والدراسات

Course Description Template

1.Course Title
Prescription Eyeglasses

2. Course Code2
3. Academic Year / Type of Course
2025-2024
4. Date of Description Preparation
2025/10/10
5. Available Attendance Mode
In Person
6. Total Credit Hours / Units
hrs. /8units 180
7. Course Coordinator (If more than one, list all)
Name: Muhaymin Sameer Aref **Email:** mohaymin.s.arif@uruk.edu.iq
1. Course Objectives

General Objective: **To understand how to dispense prescription eyeglasses, their methods of use, maintenance procedures, and assembly.** **Specific Objective:** **To learn how to examine vision and write eyeglass prescriptions, identify all types of eyeglasses, understand their function, usage techniques, and maintenance methods.**	Course Objectives

1. Teaching and Learning Strategies

Lectures and discussions Brainstorming strategy Community work strategy Strategy for dialogue and exchange of opinions	Strategy

1. Course Structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method

Course Assessment .1
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, and so on.
2. Learning and Teaching Resources

Required Textbooks (Prescribed Curriculum, if available): Official textbooks approved as part of the course syllabus.	Lectures of the Technical College of Health and Medical Technologies
Main References (Primary Sources): Key academic books and publications that form the core of the subject.	The eye book a complete guide to eye .disorders and health
Recommended Supplementary Books and	Optometry magazines of American

References (Scientific Journals, Reports, etc.): Additional resources that support and enrich the curriculum, including recent journals, research papers, and professional reports.	ophthalmology and optometry acadimy
Electronic References and Websites: Trusted online platforms, digital libraries, and educational websites relevant to the course content.	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	6	The student understands the topi	**Spectacle, parts of spectacle (Double bridge).**	theoretical	General questions and discuss
2	6	The student identifies the topic	**Spectacles frames & measurements for all types of Spectacles (Reading and Folding size).**	theoretical	general questions and discuss
3	6	The student understands the topic	**Spectacles frames & measurements for all types of Spectacles (Reading and Folding**	theoretical	general questions And discuss

4	6	The student identifies the topic	**Measurements of Sports Spectacle.**	Theoretical	general questions And discuss
5	6	The student identifies the topic	**Frames Bridge Types.**	theoretical	general questions And discuss
6	6	The student identifies the topic	**Sun glasses (Tint and Gradient).**	theoretical	general questions And discuss
7	6	The student identifies the topic	**Protect the eye farm Harm**	theoretical	general questions And discuss
8	6	The student identifies the topic	**Gold Filled Glasses.**	theoretical	general questions And discuss
9	6	The student identifies the topic	**Drive safe glasses.**	theoretical	general questions And discuss
10	6	The student identifies the topic	What is image jump (J) in bifocals?	theoretical	general questions And discuss
11	6	The student identifies the topic	**Progressive lenses (3 in 1).**	theoretical	general questions And discuss
12	6	The student identifies the topic	**Binocular glasses.**	theoretical	general questions And discuss
13	6	The student identifies the topic	**How to Adjust Eye Glasses;**	theoretical	general questions And discuss
14	6	The student identifies the topic	Removing Scratched Lens Coatings (MC).	theoretical	general questions And discuss
15	6	The student identifies the topic	**Knife lens (Advantages).**	theoretical	general questions And discuss
16	6	The student identifies the topic	Prism Lens, Calculation and manufacturing prism lens (Stage of making prism lens).	theoretical	general questions And discuss
17	6	The student identifies the topic	Prism Lens, Calculation and manufacturing prism lens (Stage of making prism lens).	theoretical	general questions And discuss
18	6	The student identifies the topic	Calculate Minimums Blank Size (MBS) + bevel.	theoretical	general questions And discuss
19	6	The student identifies the topic	Calculate Minimums Blank Size (MBS) + bevel.	theoretical	general questions And discuss
20	6	The student identifies the topic	BVD (compensated).	theoretical	general questions And discuss

23	6	The student identifies the topic	Maintenance for Contact lens:	theoretical	general questions And discuss
24	6	The student identifies the topic	. Principles of test with measurement of contact lens.	theoretical	general questions And discuss
25	6	The student identifies the topic	Fitting of contact lens.	theoretical	general questions And discuss
26	6	The student identifies the topic	Care, Risk and Complication of contact lens.	theoretical	general questions And discuss
27	6	The student identifies the topic	Care, Risk and Complication of contact lens.	theoretical	general questions And discuss
28	6	The student identifies the topic	Soft Contact Lenses (HEMA):	theoretical	general questions And discuss
29	6	The student identifies the topic	Prescription of hard contact lenses and spectacles.	theoretical	general questions And discuss
30	6	The student identifies the topic	Review.	theoretical	general questions And discuss

1. Course Title	.1
Ocular prosthesis	
2. Course Code	.2
3. Academic Year / Type of Course	.3
2024-2025	
4.Date of Description Preparation	.4
10/10/2025	
5. Available Attendance Mode	.5
In Person	
6. Total Credit Hours / Units6	.6
180 hour /8units	
7. Course Coordinator (If more than one, list all) .	.7
Name: Ayham Ali **Email:** [Please provide the email address to complete this entry.] :	
Course Objectives	.8

Course Objectives	General Objective: To develop cognitive understanding of ocular prosthetics (ocular alternatives) and describe the fundamentals of most examinations and devices used in ocular prosthetic clinics. Specific Objective: To enable the student to work in ocular prosthetic units and participate in the manufacturing of ocular prosthetics.

Teaching and Learning Strategies	.9

Strategy	Lectures and discussions. Brainstorming strategy Community work strategy Strategy for dialogue and exchange of opinions

Course Structure .10

Week	Hours	Intended Learning Outcomes	Unit / Topic Title	Learning Method	Assessment Method

11. Course Assessment	.11
Grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, and so on.	
12. Learning and Teaching Resources	.12

Required Textbooks *(Prescribed curriculum, if available)*	محاضرات الكلية التقنية الصحية والطبية
Main References (Sources)	محاضرات الكلية التقنية الصحية والطبية .
Recommended Supplementary Books and References *(Scientific journals, reports, etc.)*	Optometry magazines of American ophthalmology and optometry acadimy
Electronic References and Internet Resources	https://v2020eresource.org/content/files/Instruments_book.pdf

Course Description Template

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	6	The student understands the topi	Anatomy of the face	theoretical	general question And discuss
2	6	The student identifi the topic	Anatomy of the face	theoretical	general question And discuss
3	6	The student understands the topi	Causes of the eye damage and facial damage	theoretical	general question And discuss
4	6	The student identifi the topic	Types of eye damage	Theoretical	general question And discuss
5	6	The student identifi the topic	Patient assessment for artificia eye	theoretical	general question And discuss
6	6	The student identifi the topic	Materials used for ocular and orbital prostheses	theoretical	general question And discuss
7	6	The student identifi the topic	Impression materials for ocula and orbital prosthesis	theoretical	general question And discuss
8	6	The student identifi the topic	How to reconstruct the eye damage	theoretical	general question And discuss
9	6	The student identifi the topic	How to reconstruct the eye damage and its associated structures	theoretical	general question And discuss

10	6	The student identifi the topic	Impression of the eye defect	theoretical	general question And discuss
11	6	The student identifi the topic	Impression of the eye and its associated structure	theoretical	general question And discuss
12	6	The student identifi the topic	Developing the ocular model	theoretical	general question And discuss
13	6	The student identifi the topic	Developing the facial model	theoretical	general question And discuss
14	6	The student identifi the topic	Wax pattern the ocular defect	theoretical	general question And discuss
15	6	The student identifi the topic	Wax pattern the facial defect	theoretical	general question And discuss
16	6	The student identifi the topic	Try in anterior wax pattern on patient and make the modification	theoretical	general question And discuss
17	6	The student identifi the topic	Constrict the posterior wax pattern of missing eye	theoretical	general question And discuss
18	6	The student identifi the topic	How to flask the eye wax patt	theoretical	general question And discuss
19	6	The student identifi the topic	Types of silicon material used orbital prosthesis	theoretical	general question And discuss
20	6	The student identifi the topic	Coloring the silicon material used in eye prosthesis	theoretical	general question And discuss
21	6	The student identifi the topic	Curing the silicon material inside the mold of the flask w pattern	theoretical	general question And discuss

22	6	The student identifi the topic	Placement the ready-made ocular prosthesis inside the anterior part of the eye prosthesis	theoretical	general question And discuss
23	6	The student identifi the topic	Mounting the anterior part wi the posterior part	theoretical	general question And discuss
24	6	The student identifi the topic	Placement the ready-made eyelash and eyebrow on the e prosthesis	theoretical	general question And discuss
25	6	The student identifi the topic	Trying eye prosthesis by insertion and removing	theoretical	general question And discuss
26	6	The student identifi the topic	Complete finished eye prosth	theoretical	general question And discuss
27	6	The student identifi the topic	Orbital implant for ocular prosthesis	theoretical	general question And discuss
28	6	The student identifi the topic	Traditional Retention method for orbital prosthesis	theoretical	general question And discuss
29	6	The student identifi the topic	Bar and clip , magnetic impla to fix eye prosthesis	theoretical	general question And discuss
30	6	The student identifi the topic	How to construct the combination ocular prosthesis how to reline the ocular prosthesis , relining the ocula cavity	theoretical	general question And discuss