

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide Department Optometry Techniques

2026

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and Terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University

Faculty/Institute: Najaf Technical Institute

Scientific Department: Techniques of Optometry

Academic or Professional Program Name: Diploma in Techniques of Optometry

Final Certificate Name: Diploma in Techniques of Optometry

Academic System: semester

Description Preparation Date: 15/2/2026

File Completion Date: 15/2/2026

Signature:

Head of Department Name:

Assit.Prof.Dr.Haider Abed Ali

Date:



Signature:

Scientific Associate Name:

Assit-Prof.Dr.Salah Mehdi Salih

Date:

ا.م.د. صلاح مهدي صالح العادلي
معاون العميد للشؤون العلمية

Department: Director of the Quality Assurance and University Performance

Dr. Zaid Abdulkareem ALhamidawi

Date: 24/02/2026

Signature:

Approval of the Dean

Prof. Dr. Haider Hassan Abd Hussein

Academic Program Description Form

1. Program vision

The Vision Testing Technology Department seeks to achieve the desired outcomes that are in line with the wishes of employers and the local labor market through the department's expansion elements, which are divided into two important components:

The first element: the horizontal element: section inputs:

Inputs are reviewed periodically, taking into account the views of the department's supporting scientific committees, to determine priorities and outline the steps for scientific programs of a medical nature that reflect the requirements of the labor market.

The second element: the vertical element: the department's outputs:

The Head of the Department of Optometry and the Deanship of the Najaf Technical Institute have been working tirelessly to achieve the ultimate goal of the educational process by emphasizing the quality of graduates, which meets the desires and ambitions of employers. This can only be achieved through direct support from the Deanship of the Najaf Technical Institute and the Presidency of the Middle Euphrates Technical University through several axes, the most important of which is providing the necessary high-quality laboratories, along with a cadre of trained and qualified instructors and technicians who possess the academic standing and practical experience that qualifies them to delegate a number of graduates capable of working in various conditions.

2. Program message

We strive to be a leading and distinguished entity in the education and training of world-class optometry techniques. We believe that innovation and academic excellence are the keys to success, and we are committed to creating an advanced educational environment that enables our students to provide exceptional and innovative eye care. We aspire to achieve a qualitative shift in this field through continuous research and development, strengthening international partnerships, and graduating specialists with the highest levels of competence and professionalism.

3. Program objectives

- 1Providing high-quality education:
 - Ensure the delivery of innovative and interactive educational programs that are in line with the latest developments in vision testing technologies.
 - Providing a stimulating learning environment that supports interaction, critical thinking, and creativity.
- Preparing students for the labor market:
 - Preparing qualified graduates to work efficiently in healthcare institutions and optical centers.
 - Enhancing students' practical skills through intensive practical and field training.
- Promoting scientific research and development:
 - Support research activities that contribute to the development of new technologies in the field of vision examination.
 - Encourage students and faculty members to engage in innovative research projects.
- Providing distinguished community services
 - Organizing awareness campaigns and community service programs to spread awareness about the importance of eye examinations and eye care.
 - Providing free eye examination services at community events and local health centers.
- Strengthening cooperation and partnerships:
 - Establishing effective partnerships with local and international academic and research institutions.
 - Developing collaborative programs with eye care centers and hospitals to provide practical training opportunities for students.

The Optometry Department seeks to provide graduates with the latest knowledge and skills related to optometry services and to meet the needs of society with cadres capable of meeting the requirements of the labor market with a culture focused on serving people and instilling ethical values in society. For more information, please refer to the appendix (1-A).

2.1.1: The Department of Optometry Technology continuously and diligently strives to ensure that the mission and objectives of the Najaf Technical Institute are the starting point for achieving the department's mission and objectives. The mission of the Najaf Technical Institute clearly and transparently outlines the basic methods the institute adopts to recruit creative graduates from various administrative, technological, and medical specialties to support the scientific specialties spread throughout our beloved governorates.

The department has achieved this through the mission and objectives that the department pursues to be parallel and not in conflict with the vision and mission of the Najaf Technical Institute. You can review the appendix (1-B) To increase knowledge.

3.1.1. In the Department of Optometry, the Department Council seeks to update and develop curricula that will enhance the mental abilities and potential of students and graduates, enabling them to work efficiently in various governmental and private sectors. The Department has been keen to inform the Najaf Technical Institute Council of the plans, mechanisms and mechanics necessary to create a suitable university environment for the Department's students and to diversify the methods used in lecturing students, starting from the traditional method and ending with brainstorming methods and attracting students to the professor. The Deanship of Najaf Technical Institute also provided modern educational and illustrative tools such as lecture screens, smart boards, and a technical studio, which would enable faculty members to deliver lectures that support theoretical or practical lectures and facilitate the student's task of searching for scientific elements that would raise the academic level and relieve him of his search for scientific sources that may not be in line with the aspirations of the department and its orientations in the process of advancing the educational process, which the Ministry of Higher Education and Scientific Research, Al-Furat Al-Awsat Technical University, and Najaf Technical Institute seek to achieve the best through moral and logistical support, setting appropriate plans, and transparency in decision-making that would raise the department's status to its liking and increase its scientific weight among universities. To view the educational tools and mechanisms used in the department, please refer to the appendix (1-C).

4.1.1. Since its inception, the Department of Optometry has sought to maintain a constant balance between the department's program objectives and operational plans by strengthening ties between the department's elite faculty and the targeted segment of society, namely the department's students.

The department's program is implemented by those in charge of implementing it, including the department head and the department council members, under the

direct supervision of the Deanship of the Najaf Technical Institute. The Najaf Technical Institute Council is informed of all the aspects that would make the balancing process an effective process to reap its fruits through the level of graduates and the level of the academic program pursued by the department in particular and the institute in general. For more information, please review the appendix (1-D).

5.1.1. The Dean of Najaf Technical Institute, the Assistant Dean for Academic Affairs, the Assistant Dean for Administrative, Legal and Financial Affairs, the Assistant Dean for Student Affairs, the Head of the Department of Optometry Technology, the Department Rapporteur and the supporting committees formed in the department shall regularly and directly follow up on the extent to which the department's objectives have been achieved. The opinions of the teaching staff on the one hand and the opinions of students and graduates on the other hand are studied to develop the best steps that are in harmony with the process of updating the objectives that the department seeks to achieve and reflect on the ground. Since feedback from faculty, students and graduates is the true standard for measuring the department's ability to overcome obstacles and bridge the gaps that arise by analyzing them using the SWOT analysis method to determine the gap and find appropriate ways and methods to bridge it now or in the future after the department council and the institute council are informed of the results of the analyses and the discussions in the department council. For more clarification, please review the appendix (1-E) For the purpose of reviewing the questionnaires that the department has completed at the level of students and teaching and technical staff in the department.

6.1.1. The Department Head and Department Council, through frequent periodic meetings, have set the first day of every three odd-numbered months of the calendar year to discuss the mission, objectives and visions of the educational program at the institution and to submit any updates to the Najaf Technical Institute Council for review and to express the opinion of the esteemed members of the Council.

The department's managers study the necessary mechanisms to update the council's message and objectives, advance planning and future expectations based on trends in the labor market and to achieve full leadership in accordance with what the health reality in Najaf Governorate in particular and the country in general imposes. Due to these frequent meetings, which take place throughout the calendar year and some of which take place during the academic year, the department is able to define the broad outlines of future plans to discuss the details of the plans later. For the general benefit, you can review the appendix (1-

F) To view some of the department's activities through the approved department council sessions within the Najaf Technical Institute.

7.1.1. On numerous occasions, under the direct guidance of the Presidency of Al-Furat Al-Awsat Technical University and the Deanship of the Najaf Technical Institute, the Department of Optometry has diligently sought to hold meetings with students, discuss their priorities, and genuinely and transparently seek to resolve many of the problems students may encounter, based on the capabilities available to the department and the logistical and financial support available. The Department of Vision Examination Techniques, under the direct supervision of the Deanship of the Najaf Technical Institute, held many meetings and consultations with employers, private clinic owners, and some nursing and medical staff in government hospitals and consulting clinics in government and private hospitals, in order to study the objectives that the department hopes to achieve in the highest interest, which is the interest of students and graduates. You can review the appendix (1-G) For the purpose of viewing some of these meetings. On the other hand, the department has always believed and continues to believe that it is good to consult with faculty members in the department to increase feedback, as this is in the public interest and to achieve leadership in the department's field of specialization.

If there is a specific update or change in one of the paragraphs related to the program's objectives, it will be announced on the department's website, and the objectives that are published on the department's main entrance will be updated annually.

8.1.1. Through the curriculum followed by the Department of Optometry, each type of skill and method must be followed by the teaching and technical staff in order to teach students the necessary skills to interact with different segments of society, thus equipping them with the necessary skills to attract investors to a specific type of graduate. This practical perspective is the ultimate goal set by the Department of Optometry and the Deanship of the Najaf Technical Institute, to be achieved and updated annually in line with the requirements of Iraqi society and the labor market. For more information, please refer to Appendix (1-H).

9.1.1. In the field of the semester curriculum followed by the Department of Optometry Technology, the subjects are included based on consultations conducted during the academic year with employers on the one hand, and the Department Councils and the Najaf Technical Institute on the other hand, creating balanced circles characterized by transparency in the process of establishing the curriculum for students to achieve the desired goals, as shown in Appendix No. (1-I).

4. Program accreditation

5. Other external influences

Field visits to hospitals and graduation projects

6. Program structure

Program structure	Number of courses	Study unit	percentage	comments *
Institutional requirements	3	6	4.23	
College requirements	17	49	34.50	
Department requirements	14	87	61.27	
Summer training	80			Summer training hours
Other				

* Notes may include whether the course is core or optional.

1. Outputs The program Required and methods education and learning and Evaluation

1- Goals cognitive

- 1- that acquire The student knowledge Al-Wafiya In terms Scientific used in to examine sight
- 2- that recognize The student on Types Materials and Devices Different used in area to examine sight
- 3- Strengthening trust The student To deal with all Types patients
- 4- development capacity The student To deal with Cases Therapeutic Different

for - Objectives Skills Private By program

- 1- Strengthening Ethics Profession and Dealing with patients I have graduates
- 2- acquisition Students For skills Therapeutic Different
- 3- Strengthening principle learning continuous bezel life from Okay Continue in development Profession

Methods education and learning

- 1- Use Screens in throw Lectures
- 2- supply Students Lectures
- 3- education Clinical Applied
- 4- Use Models educational

Methods Evaluation

- 1- Tests Daily and monthly
- 2- Tests The process Laboratory
- 3- Tests oral

C- Objectives emotional and the value .

- 1- Listening students to Professor And he is Explains Lecture
- 2- Practice students what Learn it

Methods education and learning

Depends This is amazing The cycle on the offer theoretical and practical For the material.

D -Skills Public and rehabilitation Movable (Skills Other Related With possibility Employment and development (Personal).

- 1- Skill thinking
- 2- Perception The student necessity balance between freedom and Responsibility
- 3- Skill take decision Correct For the benefit the patient and The building on thinking logical

Curriculum plan

First year - O course_{to}

The material	Number of hours			Number of units	Material type	Notes
	N	A	M			
Principles of eyeglasses	2	4	6	6	Specialized	Arabic
Principles of refractive errors	2	6	8	8	Specialized	Arabic
Medical Physics	2	4	6	6	help	English
Eye anatomy	1	2	3	3	Specialized	English
Nursing	1	2	3	3	help	Arabic
computer applications	1	1	2	2	help	Arabic
Human rights and democracy	2		2	2	General	Arabic
English language	2		2	2	General	English

the total	13	19	32	32		
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First year - Second course

The material	Number of hours			Number of units	Material type	comments
	N	A	M			
Prescription glasses	2	4	6	6	Specialized	Arabic
General refractive errors	2	6	8	8	Specialized	Arabic
Optical physics	2	4	6	6	help	English
Physiology of the eye	1	2	3	3	Specialized	<u>English</u>
Medical biology	1	2	3	3	help	English
Eye health	1	2	3	3	help	Arabic
Arabic	2		2	2	General	Arabic
the total	11	20	31	31		

Second year - First course

The material	Number of hours			Number of units	Material type	comments
	N	A	M			
General eyeglasses	2	4	6	6	Specialized	Arabic
Specialized refractive errors	2	6	8	8	Specialized	English
About a year	2	6	8	8	Specialized	English
Optical medical devices	1	4	5	5	Specialized	<u>Arabic</u>

eye diseases	2	2	4	4	help	English
Research project	2	-	2	2	help	
Baath regime crimes	2		2	2	help	Arabic
the total	13	22	35	35		

Second year - Second course

The material	Number of hours			num ber	Material type	Notes
	N	A	M			
Advanced eyeglasses	2	4	6	6	Specialized	Arabic
Refractive errors applications	2	6	8	8	Specialized	Arabic
About Advanced	2	6	8	8	Specialized	English
Optical equipment	1	4	5	5	Specialized	Arabic
eye diseases	2	2	4	4	help	English
Professional ethics	2	-	2	2	help	Arabic
Research project	2	-	2	2	help	
Arabic	2		2	2	help	
the total	15	22	37	37		

2. Planning To develop Personal

Negotiation and persuasion: The student must be able to influence others, persuade them, discuss with them, and reach an agreement..

Leadership: The student must be able to lead, motivate and direct others..

Independence in work: The student must be able to bear responsibility and work independently under various conditions..

3. standard Acceptance (situation Systems Related By joining In college or Institute)

According to the Ministry's central admissions channel, the administration accepts students who have graduated from middle schools.

4. Most important sources Information on The program

- 1- The website of the institute and the university
- 2- University Guide
- 3- Books and standards of the institute

a plan skills Curriculum

Please situation signal in squares The interview For outputs learning Individualism from The program subject For evaluation

				Outputs learning Required from The program															
year / Level	code The decision	name The decision	essential or optional	Objectives cognitive				Objectives Skills Private By program				Objectives emotional and the value				Skills Public and rehabilitation Transferable (skills) Other Related With possibility Employment and development (Personal)			
				A1	A2	A3	A4	f o r 1	f o r 2	f o r 3	f o r 4	C1	C2	C3	C4	D1	D2	D3	D4
year First The course		Principles of eyeglasses	essential	✓						✓				✓		*	*	*	*

the first	Principles of refractive errors	essential	✓							✓		✓						
	Medical Physics	essential		✓							✓	✓						
	Eye anatomy	essential				✓	✓					✓						
	Nursing	essential				✓	✓					✓						
	computer applications	essential			✓					✓				✓				
	Human rights and democracy	essential	✓									✓			✓			
	English language	essential	✓					✓				✓						
year First	Prescription	essential		✓			✓							✓				

The course the second	n glasses																	
	General refractive errors	essen tial			✓		✓				✓							
	Optical physics	essen tial		✓			✓				✓							
	Physiology of the eye	essen tial		✓					✓			✓						
	Medical biology	essen tial			✓					✓				✓				
	Eye health	essen tial			✓					✓		✓						
	Arabic	essen tial	✓							✓				✓				
year Second The course	General eyeglasses	essen tial				✓				✓	✓							
	Specialized refrac	essen tial	✓				✓							✓				

the first		tive errors																	
		About a year	essen tial	✓					✓						✓				
		Optical medical devices	essen tial				✓		✓						✓				
		eye diseases	essen tial		✓						✓	✓							
		Research project	essen tial						✓			✓							
		Baath regime crimes	essen tial		✓						✓	✓							
year Seco nd The cour se the seco nd		Adva nced eyegl asses	essen tial			✓			✓					✓	*	*	*	*	
		Refra ctive error s applic	essen tial				✓		✓			✓							

	ations																		
	About Advanced	essen tial				✓		✓					✓						
	Optical equipment	essen tial				✓		✓						✓					
	eye diseases	essen tial				✓				✓				✓					
	Professional ethics	essen tial		✓				✓							✓				
	Research project	essen tial			✓		✓							✓					
	Arabic	essen tial				✓				✓	✓								

Course Description Form

1. course name	
2.Principles of eyeglasses	
3. course code	
4. the chapter / year	
First stage, first course	
5. date numbers this Description	
1/2/2026	
6. Available attendance forms	
Available attendance forms	
7. Number of study hours (total) / Number of units (total)	
6/6	
8. Name of the course administrator (if more than one name is mentioned)	
Name: Asst. Prof. Dr. haider abd ali	
9. Course objectives	
Course objectives	<p>General objective: The student should have mastered the technical basics of cutting, trimming and installing lenses. Frame using available devices</p> <p>Specific objective: The student should have learned to a high degree of proficiency in how to implement the recipe and prepare it. Eyeglasses and Compatibility Check</p>
10. Teaching and learning strategies	
St eg	<p>-Learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between Students. -study the condition The process To check group from who They suffer from weakness Basrali Devices And also a job glasses To process Cases to fail The eye And a palace Sight.</p>

week	wa es	Outputs Required learning	Name of unit or topi	Learning method	Evaluation method
the first	6	knowledge and understanding	Eyeglasses, their parts, and types	Practical + theoretical	Tests The process and tests Theory a reports
the second	6	knowledge and understanding	Optical lenses	Practical + theoretical	Tests The process and tests Theory and reports
the third	6	knowledge and understanding	Types of lenses, th manufacture	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	6	knowledge and understanding	Lens unit of measurement	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	6	knowledge and understanding	Extract lens axes	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	6	knowledge and understanding	Lens axes equatio	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	6	knowledge and understanding	How to write lens power	Practical + theoretical	Tests The process and tests Theory

					and reports
The eight	6	knowledge and understanding	Writing a prescription	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	6	knowledge and understanding	Types of phosphometer	Practical + theoretical	Tests The process and tests Theory and reports
tenth	6	knowledge and understanding	Measuring lens power with a phosphometer	Practical + theoretical	Tests The process and tests Theory and reports
atheistic	6	knowledge and understanding	Eyeglass frames, types, parts	Practical + theoretical	Tests The process and tests Theory and reports
the second	6	knowledge and understanding	Materials used in tire manufacturing	Practical + theoretical	Tests The process and tests Theory and reports
the third	6	knowledge and understanding	Natural and synthetic material used in the manufacture of eyeglass frames	Practical + theoretical	Tests The process and tests Theory and reports
Fourth te	6	knowledge and understanding	Metal materials used in the manufacture of eyeglass frames (1	Practical + theoretical	Tests The process and tests Theory

					and reports
Fifth ten	6	knowledge and understanding	Metal materials used in the manufacture of eyeglass frames (2	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reportsetc.

12-Learning and teaching resources

Required textbooks (methodology if an	
Main references (sources)	The Assistant Book on Eyeglasses
Recommended supporting books and references (scientific journals, reports.	Principles of eyeglasses
Electronic references, websites	

11. course name
Principles of refractive errors
12.course code
13. the chapter / year
First stage, first course
14. date numbers this Description
1/2/2026
15. Available attendance forms

Available attendance forms

16. Number of study hours (total) / Number of units (total)

8/8

17. Name of the course administrator (if more than one name is mentioned)

Name: Asst.prof.Dr. Mustafa Salem Mohammed Email
:mustafa.salim.inj@atu.edu.iq

18. Course objectives

Course objectives

1. The student should be able to identify and diagnose refractive errors in the eye.
2. Training the student on how to examine refractive errors of the eye and write a prescription.

19. Teaching and learning strategies

Strategy

-Learning Interactive Includes Use Discussions collective and discussions small and activities
Interactive To encourage Participation active And exchange Ideas between Students.
-study the condition The process To check group from who They suffer from mistakes refraction on
Devices And also a job glasses To process Cases error refractive .

week	watches	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	8	knowledge and understanding	Errors of refraction in the eye, its definition, general bases	Practical + theoretical	Tests The process and tests Theory and reports

the second	8	knowledge and understanding	dioptric system of the eye, the path of the light through its refraction through the dioptric system, How does the eye see	Practical + theoretical	Tests The process and tests Theory and reports
the third	8	knowledge and understanding	A new classification of the types of hypermetropia	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	8	knowledge and understanding	Sensitivity of the retina to light	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	8	knowledge and understanding	colors and color blindness	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	8	knowledge and understanding	visual acuity charts, its types	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	8	knowledge and understanding	The effect of conditions on myopia and hypermetropia	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	8	knowledge and understanding	the ways of treating Hypermetropia	Practical + theoretical	Tests The process and tests Theory and reports

Ninth	8	knowledge and understanding	Presbyopia	Practical + theoretical	Tests The process and tests Theory and reports
tenth	8	knowledge and understanding	Myopia, etiology and its types	Practical + theoretical	Tests The process and tests Theory and reports
attheistic te	8	knowledge and understanding	Re-explanation and clarification of the idea the pinhole with illustrative examples	Practical + theoretical	Tests The process and tests Theory and reports
the second ten	8	knowledge and understanding	Astigmatism, etiology and its types	Practical + theoretical	Tests The process and tests Theory and reports
the third t	8	knowledge and understanding	the ways of treating Astigmatism	Practical + theoretical	Tests The process and tests Theory and reports
Fourth ten	8	knowledge and understanding	visual acuity	Practical + theoretical	Tests The process and tests Theory and reports
Fifth ten	8	knowledge and understanding	Examination of distance visual acuity	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral

and editorial and reports etc.

12-Learning and teaching resources

Required textbooks (methodology if any)

Main references (sources)

Book project Refractive error

Recommended supporting books and references
(scientific journals, reports...)

Electronic references, websites

20.course name

Medical Physics

21.course code

22. the chapter / year

First stage, first course

23. date numbers this Description

1/2/2026

24. Available attendance forms

Available attendance forms

25.Number of study hours (total) / Number of units (total)

6/6

26. Name of the course administrator (if more than one name is mentioned)

Name: lec.Dr.raneem Mohammed Abbas Email :raneemdosh@atu.edu.iq

27. Course objectives

Course objectives

1- General objective: For the student to be familiar with the basics of light.
 2- Specific objective: To identify the phenomena of reflection and refraction of light in reflecting and refracting media and the applications of the laws related to them.

28. Teaching and learning strategies

Strategy

-Learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between Students.
 -study Types lenses And knowledge Do she concave or convex And diagnosis prism And knowledge deviation light .

week	watches	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	6	knowledge and understanding	Occupational safety programs work quality assurance.	Practical + theoretical	Tests The process and tests Theory and reports
the second	6	knowledge and understanding	The concept of occupational safety and its rules.	Practical + theoretical	Tests The process and tests Theory and reports
the third	6	knowledge and understanding	The light, nature of the light, light sources, the theories of the light	Practical + theoretical	Tests The process and tests Theory and reports

Fourth	6	knowledge and understanding	The electromagnetic spectrum	Practical + theoretical	Tests The process and tests Theory and repo
Fifth	6	knowledge and understanding	Velocity of the light, Frequency and energy of the visible light	Practical + theoretical	Tests The process and tests Theory and repo
Sixth	6	knowledge and understanding	The reflection, the laws of reflection, reflection at plane and spherical surfaces	Practical + theoretical	Tests The process and tests Theory and repo
Seventh	6	knowledge and understanding	Propagation and Reflection of Light	Practical + theoretical	Tests The process and tests Theory and repo
The eighth	6	knowledge and understanding	Mirrors, types of mirrors, properties of the image formed by plane mirrors, properties of the image formed by plane mirror	Practical + theoretical	Tests The process and tests Theory and repo
Ninth	6	knowledge and understanding	Spherical mirrors, center of curvature, axis, vertices, focal length	Practical + theoretical	Tests The process and tests Theory and repo
tenth	6	knowledge and understanding	Concave mirror, properties of image formed by concave mirror	Practical + theoretical	Tests The process and tests Theory and repo
eleventh	6	knowledge and understanding	Convex mirror, properties of image formed by convex mirror	Practical + theoretical	Tests The process and tests Theory and repo
the second ten	6	knowledge and understanding	Real and virtual images formed by reflected surfaces	Practical + theoretical	Tests The process and tests Theory and repo
the third ten	6	knowledge and understanding	Refraction, the laws of refraction by plane surfaces	Practical + theoretical	Tests The process and tests Theory and repo
Fourth ten	6	knowledge and understanding	The refractive index, relative refractive index	Practical + theoretical	Tests The process and tests Theory and repo
Fifth ten	6	knowledge and understanding	Factors affecting the refractive index	Practical + theoretical	Tests The process and tests Theory and repo

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports..... etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Book project Optical physics
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

29.course name

Eye anatomy

30.course code

31. the chapter / year

First stage, first course

32. date numbers this Description

1/2/2026

33. Available attendance forms

Available attendance forms

34.Number of study hours (total) / Number of units (total)

3/3

35. Name of the course administrator (if more than one name is mentioned)

Name: Dr. Israa Mohammed Riyadh

Email :esraa.muhammed.inj@atu.edu.iq

36. Course objectives

Course objectives

1- Preparing the student to understand the scientific materials related to the

	<p>basics of cadaveric anatomy and eye functions.</p> <p>2- Knowing the anatomical parts of the eye and its vital functions in detail.</p>
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37. Teaching and learning strategies

Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students
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week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	3	knowledge and understanding	General information about the eye and its functions	Practical + theoretical	Tests The process and tests Theory and reports
the second	3	knowledge and understanding	Anatomy of the eye ball and eye layers	Practical + theoretical	Tests The process and tests Theory and reports
the third	3	knowledge and understanding	Cornea, histology	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	3	knowledge and understanding	Sclera, histology	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	3	knowledge and understanding	Iris, histology and ciliary body	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	3	knowledge and understanding	Anatomy of the chambers of eye	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	3	knowledge and understanding	Retina, histology	Practical + theoretical	Tests The process and tests Theory and reports

The eighth	3	knowledge and understanding	Aqueous humor, vitreous body	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	3	knowledge and understanding	Extra ocular muscle	Practical + theoretical	Tests The process and tests Theory and reports
tenth	3	knowledge and understanding	The ocular appendages	Practical + theoretical	Tests The process and tests Theory and reports
theistic te	3	knowledge and understanding	Lacrimal system	Practical + theoretical	Tests The process and tests Theory and reports
the second ten	3	knowledge and understanding	Conjunctiva	Practical + theoretical	Tests The process and tests Theory and reports
the third t	3	knowledge and understanding	Orbit	Practical + theoretical	Tests The process and tests Theory and reports
Fourth ten	3	knowledge and understanding	Air sinuses and its anatomical relationship with the eye ball	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

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12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Book autopsy and functions of the eye
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

38.course name

Nursing	
39.course code	
40. the chapter / year	
First stage, first course	
41. date numbers this Description	
1/2/2026	
42. Available attendance forms	
Available attendance forms	
43. Number of study hours (total) / Number of units (total)	
3/3	
44. Name of the course administrator (if more than one name is mentioned)	
Name: Dr. Amin Jihad Derwish Email :ameen.jihad.inj@atu.edu.iq	
45. Course objectives	
Course objectives	Teaching the student how to treat eye wounds and bandage transparent wounds in the eye How to sterilize a medical thermometer and set the temperature standard
46. Teaching and learning strategies	
Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students learning on How to first aid wounds Public and first aid bleeding In its various types Different

week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	3	knowledge and understandin	The concept of nursing and its importance	Practical + theoretical	Tests The process and tests Theory and reports

the second	3	knowledge and understanding	Bandages and their types	Practical + theoretical	Tests The process and tests Theory and reports
the third	3	knowledge and understanding	Sterilization methods and the importance of each	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	3	knowledge and understanding	General and eye disinfectants and sterilizers	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	3	knowledge and understanding	Surgical instruments used in dressings	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	3	knowledge and understanding	Types of wounds and their first aid	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	3	knowledge and understanding	Bleeding and its types	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	3	knowledge and understanding	Bleeding in the eye	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	3	knowledge and understanding	General rules for first aid for external bleeding	Practical + theoretical	Tests The process and tests Theory and reports
tenth	3	knowledge and understanding	Antibiotics, their types and importance	Practical + theoretical	Tests The process and tests Theory and reports
attheistic ten	3	knowledge and understanding	body temperature, thermometer	Practical + theoretical	Tests The process and tests Theory and reports
the second ten	3	knowledge and understanding	Pulse, its importance, measurement sites, and indications	Practical + theoretical	Tests The process and tests Theory and reports
the third ten	3	knowledge and understanding	Blood pressure (1)	Practical + theoretical	Tests The process and tests Theory and reports
Fourth ten	3	knowledge and understanding	Blood pressure (2)	Practical + theoretical	Tests The process and tests Theory and reports

Fifth ten	3	knowledge and understanding	Muscle effort and its effects	Practical + theoretical	Tests The process and tests Theory and reports
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11-Course Evaluation

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12-Learning and teaching resources

Required textbooks (methodology if any)

Main references (sources)

General Nursing Foundations

Recommended supporting books and references (scientific journals, reports...)

Principles of Nursing

Electronic references, websites

47. name The decision

Computer applications

48.course code

49. the chapter / year

First stage, first course

50. date numbers this Description

1/2/2026

51. Available attendance forms

Available attendance forms

52.Number of study hours (total) / Number of units (total)

3/3

53. Name of the course administrator (if more than one name is mentioned)

Name: asst. lec.In'am Abdul Mohsen Salman
 Email :enaam.salman@atu.edu.iq

54. Course objectives

Course objectives

General objective: To provide students with skills in dealing with basic office applications, creating office files and documents, using the operating system, and the basics of working within a digital environment. The specific objective: to provide the student with knowledge in managing and using various computer applications.

55. Teaching and learning strategies

Strategy

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students study the condition The process For computers And work on Programs Applied in Calculator.

week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	3	knowledge and understanding	basics computer Computer Fundamentals computer Phases turn life computer development Generations	Practical + theoretical	Tests The process and tests Theory and reports
the second	3	knowledge and understanding	Advantages of computers and their areas of use Computers classified according to their purpose, size, type, and data.	Practical + theoretical	Tests The process and tests Theory and reports
the third	3	knowledge and understanding	ingredients computer Computer Components computer Parts materialism F computer Entities Software	Practical + theoretical	Tests The process and tests Theory and reports

Fourth	3	knowledge and understanding	Your computer Personal conditions security computer and license Programs	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	3	knowledge and understanding	safety computer and licenses Programs Computer Safety & Software Licenses	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	3	knowledge and understanding	ethics the world electronic , Forms transgressions , security computer , privacy computer	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	3	knowledge and understanding	Licenses Programs computer its types , Ownership intellectual , hacking electronic Software malicious , Most important Steps necessary For protection from Operations hacking , Damages computer health	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	3	knowledge and understanding	Operating Systems Systems Operation identification system Operation , Jobs , Goal Classification Examples For systems Operation	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	3	knowledge and understanding	Operating systems Windows operating system7	Practical + theoretical	Tests The process and tests Theory and reports
tenth	3	knowledge and understanding	ingredients surface Office existing never tape Tasks	Practical + theoretical	Tests The process and tests Theory and reports
atheistic te	3	knowledge and understanding	Volumes and files Icons	Practical + theoretical	Tests The process and tests Theory and reports
the second ten	3	knowledge and understanding	Forms education The class Mixed And accreditation Complete on Internet	Practical + theoretical	Tests The process and tests Theory and reports

the third t	3	knowledge an understandin	board Control board Control Windows Control Panel Groups(Category)	Practical + theoretical	Tests The process and tests Theory and reports
Fourth ten	3	knowledge an understandin	Organization Defragment from Control PanelFiles inside computer , inauguration Programs And delete it	Practical + theoretical	Tests The process and tests Theory and reports
Fifth ten	3	knowledge an understandin	some Cases and settings rumo computer , administration printer adjust the time and history , maintenance tablets Primary	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

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12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	basics computer
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

56.course name

Human rights and democracy

57.course code

58. the chapter / year

First stage, first course

59. date numbers this Description	
1/2/2026	
60. Available attendance forms	
Available attendance forms	
61. Number of study hours (total) / Number of units (total)	
2/2	
62. Name of the course administrator (if more than one name is mentioned)	
Name: Dr. Zainab Confident complete Email :zainabeee836@gmail.co	
63. Course objectives	
Course objectives	<p>Course objectives:At the end of the year, the student will be able to identify:</p> <p><u>General objectives:</u> - Dental rights aim to achieve cultural progress among the people, to achieve social welfare, and to protect the basic freedom of the individual in general by respecting his basic rights to freedom, justice, and equality.</p> <p><u>Specific objectives:</u> -</p> <p>Human rights aim to ensure cooperation and harmony between the existing political system (the government) and the people. Therefore, it seeks in its goal to achieve a high degree of harmonious relationship between the people and it. Otherwise, it will fail to achieve its aspirations. Democracy aims to ensure cooperation and harmony between the existing political system (the government) and the</p>

people. Therefore, it seeks in its goal to achieve a great degree of harmonious relationship between the people and it. Otherwise, it will fail to achieve its aspirations.

64. Teaching and learning strategies

Strategy learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	2	knowledge and understanding	Human rights, definition, objectives	theoretical	Tests Theory and reports
the second	2	knowledge and understanding	The roots of human rights and their development in human history, human rights in ancient and medieval times	theoretical	Tests Theory and reports
the third	2	knowledge and understanding	Human rights in ancient civilizations, especially the civilization of Mesopotamia	theoretical	Tests Theory and reports
Fourth	2	knowledge and understanding	Human rights in Islamic law with a focus on human rights in Islam	theoretical	Tests Theory and reports
Fifth	2	knowledge and understanding	Human Rights in the Middle Ages: Human Rights in Doctrines, Schools, and Political Theories; Human Rights in Corporations and Their Declarations, Revolutions, and Constitution (English Documents, the American Revolution, the French Revolution, and the Russian Revolution)	theoretical	Tests Theory and reports
Sixth	2	knowledge and understanding	Human rights in Arab constitutions	theoretical	Tests Theory and reports

Seventh	2	knowledge and understanding	Regional recognition of human rights: the European Convention on Human Rights 1950, American Convention on Human Rights 1969, African Charter on Human Rights 1981, Arab Charter on Human Rights 1994	theoretical	Tests Theory and reports
The eighth	2	knowledge and understanding	NGOs and human rights (ICRC, Amnesty International, Human Rights Watch)	theoretical	Tests Theory and reports
Ninth	2	knowledge and understanding	National human rights organizations	theoretical	Tests Theory and reports
tenth	2	knowledge and understanding	Human Rights in Iraqi Constitutions: Between Theory and Reality	theoretical	Tests Theory and reports
atheistic ten	2	knowledge and understanding	The relationship between human rights and public freedoms: 1- In the Universal Declaration of Human Rights	theoretical	Tests Theory and reports
the second ten	2	knowledge and understanding	2- In regional charters and national constitutions	theoretical	Tests Theory and reports
the third ten	2	knowledge and understanding	Essential human rights and collective human rights	theoretical	Tests Theory and reports
Fourth ten	2	knowledge and understanding	The problem of school bullying, consumer culture, and family relations	theoretical	Tests Theory and reports
Fifth ten	2	knowledge and understanding	Modern human rights: the right to development, the right to a clean environment, the right to solidarity, the right to religion	theoretical	Tests Theory and reports

11-Course Evaluation

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12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Human rights and democracy
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

65.course name	
English language	
66.course code	
67. the chapter / year	
First stage, first course	
68. date numbers this Description	
1/2/2026	
69. Available attendance forms	
Available attendance forms	
70.Number of study hours (total) / Number of units (total)	
2/2	
71. Name of the course administrator (if more than one name is mentioned)	
Name:asst.lec. Haider sabah Ghuloum Email :haidar.sabah.inj@atu.edu.iq	
72. Course objectives	
Course objectives	jectives of the course: The student should be familiar with the general rules of the English language and how

to use them to easily deal with what is related to being an Optometrist.

Special Objective/ That the student has mastered the tenses, verbs and the use of important terms that are useful to him in his work.

73. Teaching and learning strategies

Strategy learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	2	knowledge and understanding	Pronouns	theoretical	Tests Theory and reports
the second	2	knowledge and understanding	The Verb	theoretical	Tests Theory and reports
the third	2	knowledge and understanding	Helping Verbs	theoretical	Tests Theory and reports
Fourth	2	knowledge and understanding	Quiz	theoretical	Tests Theory and reports
Fifth	2	knowledge and understanding	Using a, an, the	theoretical	Tests Theory and reports
Sixth	2	knowledge and understanding	Singular and plural	theoretical	Tests Theory and reports
Seventh	2	knowledge and understanding	Tenses of The Verb, 1. The Present Simple Tense	theoretical	Tests Theory and reports
The eighth	2	knowledge and understanding	2. The Past Simple Tense	theoretical	Tests Theory and reports

Ninth	2	knowledge and understanding	3. The Present Continuous Tense	theoretical	Tests Theory and reports
tenth	2	knowledge and understanding	4. The Past Continuous Tense	theoretical	Tests Theory and reports
eleventh	2	knowledge and understanding	5. The Present Perfect Tense	theoretical	Tests Theory and reports
twelfth	2	knowledge and understanding	6. The Past Perfect Tense	theoretical	Tests Theory and reports
thirteenth	2	knowledge and understanding	7. The Future Simple Tense	theoretical	Tests Theory and reports
fourth ten	2	knowledge and understanding	Quiz	theoretical	Tests Theory and reports
Fifth ten	2	knowledge and understanding	General Review	theoretical	Tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports.....etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	English Language for optometry
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

74.course name	
Prescription glasses	
75.course code	
76. the chapter / year	
First stage, second course	
77. date numbers this Description	
1/2/2026	
78. Available attendance forms	
Available attendance forms	
79.Number of study hours (total) / Number of units (total)	
6/6	
80. Name of the course administrator (if more than one name is mentioned)	
Name: Asst. Prof. Dr. Haider abd ali Email :haider.ali.inj@atu.edu.iq	
81. Course objectives	
Course objectives	<p>General objective: The student should have mastered the technical basics of cutting and trimming lenses and installing them in the frame using the available equipment.</p> <p>Specific objective: The student should have learned to a high degree of proficiency in how to implement the prescription, prepare the eyeglasses, and check the conformity.</p>
82. Teaching and learning strategies	
Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Outputs	Name of unit or topic	Learning method	Evaluation method
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		Required learning			
the first	6	knowledge and understanding	Glasses help, types, size	Practical + theoretical	Tests The process and tests Theory and reports
the second	6	knowledge and understanding	distance between the pupils	Practical + theoretical	Tests The process and tests Theory and reports
the third	6	knowledge and understanding	Reflectometer and congruent scale of inter-pupil distance	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	6	knowledge and understanding	Types of bridges in glasses	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	6	knowledge and understanding	Methods for measuring bridge in glasses	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	6	knowledge and understanding	Types of facial measurements (facial dimensions)	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	6	knowledge and understanding	Ways to choose the right frame	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	6	knowledge and understanding	Making a mold for glasses	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	6	knowledge and understanding	Lens polishing and polishing	Practical + theoretical	Tests The process and tests Theory and reports
tenth	6	knowledge and understanding	Contact lenses and their types	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports.....etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	The Assistant Book on Eyeglasses
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

83.course name	
General refractive errors	
84.course code	
85. the chapter / year	
First stage, second course	
86. date numbers this Description	
1/2/2026	
87. Available attendance forms	
Available attendance forms	
88.Number of study hours (total) / Number of units (total)	
8/8	
89. Name of the course administrator (if more than one name is mentioned)	
Name: Dr. Mustafa Salem Mohammed Email :mustafa.salim.inj@atu.edu.iq	
90. Course objectives	
Course objectives	<ol style="list-style-type: none"> 1. General objective: The student will be able to identify and diagnose refractive errors in the eye. 2. Specific objective: To train the student on how to examine refractive

	errors of the eye and write a prescription. theoretical vocabulary
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91. Teaching and learning strategies

Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students
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week	watch	Output Requir learnin	Name of unit or topic	Learning method	Evaluation method
the first	8	knowledg and understa ng	Many new examples of calculating refractive error by using the retinoscop	Practical + theoretical	Tests The process and tests Theory and reports
the second	8	knowledg and understa ng	Optical lenses, definition, types	Practical + theoretical	Tests The process and tests Theory and reports
the third	8	knowledg and understa ng	lens measurement unit	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	8	knowledg and understa ng	The ways of writing lens power	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	8	knowledg and understa ng	lens power, poles power, equivalent power	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	8	knowledg and understa ng	Thwe ways of measuring lens power, poles power	Practical + theoretical	Tests The process and tests Theory and reports

Seventh	8	knowledge and understanding	Applications for errors of refraction in the eye and its diagnosis	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	8	knowledge and understanding	Receiving the patient and fixing the basic information of the patient's complaint	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	8	knowledge and understanding	stage of hypermetropia with age	Practical + theoretical	Tests The process and tests Theory and reports
tenth	8	knowledge and understanding	Subjective retinoscopy	Practical + theoretical	Tests The process and tests Theory and reports
theistic test	8	knowledge and understanding	Objective refraction, simple retinoscopy	Practical + theoretical	Tests The process and tests Theory and reports
the second ten	8	knowledge and understanding	Streak, electrical retinoscopy	Practical + theoretical	Tests The process and tests Theory and reports
the third ten	8	knowledge and understanding	Writing of medical prescription after eye examination	Practical + theoretical	Tests The process and tests Theory and reports
Fourth ten	8	knowledge and understanding	Examination of the accommodation after correction	Practical + theoretical	Tests The process and tests Theory and reports
Fifth ten	8	knowledge and understanding	errors of refraction by glasses	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports..... etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Book project Refractive error
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

92.course name	
Optical physics	
93.course code	
94. the chapter / year	
First stage, second course	
95. date numbers this Description	
1/2/2026	
96. Available attendance forms	
Available attendance forms	
97.Number of study hours (total) / Number of units (total)	
6/6	
98. Name of the course administrator (if more than one name is mentioned)	
Name: lec.Dr. Raneem Mohammed Abbas Email :raneemdosh@atu.edu.iq	
99. Course objectives	
Course objectives	1/ General objective: The students must be familiar with the foundations of the light.

2/ special objective: To be able to know the phenomena of reflection and refraction of the light in reflected and refracted mediums and applications of related laws.

100. Teaching and learning strategies

Strategy learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Output Requir learnin	Name of unit or topic	Learning method	Evaluation method
the first	6	knowledg and understa ng	How does light travel through the eye?	Practical + theoretical	Tests The process and tests Theory and reports
the second	6	knowledg and understa ng	Total internal reflection, critical an	Practical + theoretical	Tests The process and tests Theory and reports
the third	6	knowledg and understa ng	Reflection by plane parallel plate	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	6	knowledg and understa ng	Refraction by a prism	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	6	knowledg and understa ng	Convention of signs for distance	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	6	knowledg and understa ng	Refraction at spherical surfaces	Practical + theoretical	Tests The process and tests Theory and reports

Seventh	6	knowledge and understanding	The lens, first focal point, second focal point, focal length, types of l	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	6	knowledge and understanding	Gaussian law, magnification	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	6	knowledge and understanding	Convex lens, properties of image formed by convex lens	Practical + theoretical	Tests The process and tests Theory and reports
tenth	6	knowledge and understanding	Concave lens, properties of image formed by concave lens	Practical + theoretical	Tests The process and tests Theory and reports
theistic te	6	knowledge and understanding	Compound lens, Newton equation	Practical + theoretical	Tests The process and tests Theory and reports
the second ten	6	knowledge and understanding	Lens maker's equation, power of l	Practical + theoretical	Tests The process and tests Theory and reports
the third t	6	knowledge and understanding	Aberrations of lens, chromatic aberrations, monochromatic aberrations	Practical + theoretical	Tests The process and tests Theory and reports
Fourth ten	6	knowledge and understanding	Coma aberration, Astigmatism, field curvatures, Distortion aberration	Practical + theoretical	Tests The process and tests Theory and reports
Fifth ten	6	knowledge and understanding	The Eye and the Optical Instrument	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports.....etc.

12-Learning and teaching resources	
Required textbooks (methodology if any)	
Main references (sources)	Book project Optical physics
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

101.course name	
Physiology of the eye	
102.course code	
103. the chapter / year	
First stage, second course	
104. date numbers this Description	
1/2/2026	
105.Available attendance forms	
Available attendance forms	
106. Number of study hours (total) / Number of units (total)	
3/3	
107. Name of the course administrator (if more than one name is mentioned)	
Name: lec.dr.israa mohammed ryiad Email :	
108.Course objectives	
Course objectives	1/ General objective: science knowledge of microbiology and parasites that cause eye diseases and the body and methods of isolating.

	2/ Special objective: the creation of the student to understand the incidence of eye diseases and eye nursing treatment and to maintain eye health.
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109. Teaching and learning strategies

Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students
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week	watch	Output Requir learnin	Name of unit or topic	Learning method	Evaluation method
the first	3	knowledg and understa ng	How does light travel through the eye?	Practical + theoretical	Tests The process and tests Theory and reports
the second	3	knowledg and understa ng	Total internal reflection, critical angle	Practical + theoretical	Tests The process and tests Theory and reports
the third	3	knowledg and understa ng	Reflection by plane parallel plate	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	3	knowledg and understa ng	Refraction by a prism	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	3	knowledg and understa ng	Convention of signs for distance	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	3	knowledg and understa ng	Refraction at spherical surfaces	Practical + theoretical	Tests The process and tests Theory and reports

Seventh	3	knowledge and understanding	The lens, first focal point, second focal point, focal length, types of lens	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	3	knowledge and understanding	Gaussian law, magnification	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	3	knowledge and understanding	Convex lens, properties of image formed by convex lens	Practical + theoretical	Tests The process and tests Theory and reports
tenth	3	knowledge and understanding	Concave lens, properties of image formed by concave lens	Practical + theoretical	Tests The process and tests Theory and reports
eleventh	3	knowledge and understanding	Compound lens, Newton equation	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports.....etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Book project Optical physics
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

110.course name					
Medical biology					
111.course code					
112. the chapter / year					
First stage, second course					
113. date numbers this Description					
1/2/2026					
114. Available attendance forms					
Available attendance forms					
115. Number of study hours (total) / Number of units (total)					
3/3					
116. Name of the course administrator (if more than one name is mentioned)					
Name: asst.lec.noor ayed			Email		
117. Course objectives					
Course objectives			1/ General objective: science knowledge of microbiology and parasites that cause eye diseases and the body and methods of isolating. 2/ Special objective: the creation of the student to understand the incidence of eye diseases and eye nursing treatment and to maintain eye health. .		
118. Teaching and learning strategies					
Strategy		learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students			
week	watch	Output Requir learnin	Name of unit or topic	Learning method	Evaluation method

the first	3	knowledg and understa ng	Isolation by culturing and staining o bacteria (Gram stain)	Practical theoretic	Tests The process and tests Theory and reports
the second	3	knowledg and understa ng	Bacterial infection of the eye	Practical theoretic	Tests The process and tests Theory and reports
the third	3	knowledg and understa ng	Sterilization and disinfection (physi and chemical methods)	Practical theoretic	Tests The process and tests Theory and reports
Fourth	3	knowledg and understa ng	General parasitology (Types of parasitism, pathogen city of parasit diseases	Practical theoretic	Tests The process and tests Theory and reports
Fifth	3	knowledg and understa ng	General classification of parasites (Protozoa, amoebae and flagellates)	Practical theoretic	Tests The process and tests Theory and reports
Sixth	3	knowledg and understa ng	General classification of parasites (protozoa, ciliates and sporozoa)	Practical theoretic	Tests The process and tests Theory and reports
Seventh	3	knowledg and understa ng	General classification of parasites (helminthes, nematode)	Practical theoretic	Tests The process and tests Theory and reports
The eighth	3	knowledg and understa ng	General classification of parasites (helminthes, cestoda and trematod)	Practical theoretic	Tests The process and tests Theory and reports
Ninth	3	knowledg and understa ng	Parasitic infections of the eye	Practical theoretic	Tests The process and tests Theory and reports
tenth	3	knowledg and understa ng	Eye hygiene	Practical theoretic	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports.....etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Basic Histology Human Histology Medical Biology Micro Biology
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

119.course name
Eye health
120. course code
121. the chapter / year
First stage, second course
122. date numbers this Description
1/2/2026
123. Available attendance forms
Available attendance forms
124. Number of study hours (total) / Number of units (total)
3/3
125. Name of the course administrator (if more than one name is mentioned)
Name: Dr. Amin Jihad Derwish Email :ameen.jihad.inj@atu.edu.iq
126. Course objectives
Course objectives

	<p>General objective /1- Learn the basic principles of nursing and first aid. 2- Identify the basic principles of public health and primary health care.</p> <p>Special goal/1- Learn about the precise care of eye nursing and first aid. 2- Learn about eye health care, maintaining eye health, and preventing blindness.</p>
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127. Teaching and learning strategies

Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students
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week	watch	Output Requi learnin	Name of unit or topic	Learning method	Evaluation method
the first	3	knowled and understa ng	breathing and suffocation, gas poisoning	Practical + theoretical	Tests The process and tes Theory and reports
the second	3	knowled and understa ng	Artificial respiration1)	Practical + theoretical	Tests The process and tes Theory and reports
the third	3	knowled and understa ng	Artificial respiration2)	Practical + theoretical	Tests The process and tes Theory and reports
Fourth	3	knowled and understa ng	Eye accidents and how care for them	Practical + theoretical	Tests The process and tes Theory and reports

Fifth	3	knowled and understa ng	Foreign bodies in the e and their types	Practical + theoretical	Tests The process and tes Theory and reports
Sixth	3	knowled and understa ng	First aid, its types, its importance	Practical + theoretical	Tests The process and tes Theory and reports
Seventh	3	knowled and understa ng	Burns, their types, and how to treat them	Practical + theoretical	Tests The process and tes Theory and reports
The eighth	3	knowled and understa ng	Burns to the eye, how t treat them	Practical + theoretical	Tests The process and tes Theory and reports
Ninth	3	knowled and understa ng	Eye health care	Practical + theoretical	Tests The process and tes Theory and reports
tenth	3	knowled and understa ng	Explanation of the surv forms in eye health	Practical + theoretical	Tests The process and tes Theory and reports
atheistic			Application for a field survey in eye health (1)	Practical + theoretical	Tests The process and tes Theory and reports
the second			Discussion and evaluation of survey results (1)	Practical + theoretical	Tests The process and tes Theory and reports
the third			Application for a field survey in eye health (2)	Practical + theoretical	Tests The process and tes Theory and reports
Fourth te			Discussion and evaluation of survey results (2)	Practical + theoretical	Tests The process and tes Theory and reports
Fifth ten			Prevention of blindnes	Practical + theoretical	Tests The process and tes Theory and reports

135. Course objectives

Course objectives

136. Teaching and learning strategies

Strategy learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Output Requir learnin	Name of unit or topic	Learning method	Evaluation method
the first	2	knowled and understa ng	Introduction to linguisti errors - the closed and long taa and the open t	theoretical	Tests Theory and reports
the second	2	knowled and understa ng	Rules for writing the extended and shortene alif - solar and lunar letters	theoretical	Tests Theory and reports
the third	2	knowled and understa ng	Dad and Tha	theoretical	Tests Theory and reports
Fourth	2	knowled and understa ng	Writing the hamza	theoretical	Tests Theory and reports
Fifth	2	knowled and understa ng	punctuation marks	theoretical	Tests Theory and reports
Sixth	2	knowled and understa ng	Noun, verb, and the difference between the	theoretical	Tests Theory and reports

Seventh	2	knowled and understa ng	Effects	theoretical	Tests Theory and reports
The eight	2	knowled and understa ng	Number	theoretical	Tests Theory and reports
Ninth	2	knowled and understa ng	Common language erro applications	theoretical	Tests Theory and reports
tenth	2	knowled and understa ng	Noon and Tanween - Meanings of Prepositio	theoretical	Tests Theory and reports
atheistic	2	knowled and understa ng	Formal aspects of administrative discours	theoretical	Tests Theory and reports
the secon ten	2	knowled and understa ng	Language of administrative discourse	theoretical	Tests Theory and reports
the third	2	knowled and understa ng	Examples of administrative correspondence	theoretical	Tests Theory and reports
Fourth te	2	knowled and understa ng	Introduction to linguistic errors - the closed and long taa and the open taa	theoretical	Tests Theory and reports
Fifth ten	2	knowled and understa ng	Rules for writing the extended and shortened alif - solar and lunar letters	theoretical	Tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The stude like Preparation Daily and exams Daily and oral And monthly and editorial and reportse

Specific objective: The student should have learned to a high degree of proficiency in how to implement the recipe.

Preparing medical glasses and checking compliance.

145. Teaching and learning strategies

Strategy learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	6	knowledge and understanding	Types of glasses, purpose of using medical glasses	Practical + theoretical	Tests The process and tests Theory and reports
the second	6	knowledge and understanding	Protective glasses, types, use	Practical + theoretical	Tests The process and tests Theory and reports
the third	6	knowledge and understanding	The effect of ultraviolet rays the eye	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	6	knowledge and understanding	Installing eyeglass lenses	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	6	knowledge and understanding	Axis orientation, systems use to measure the orientation of the lens axis	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	6	knowledge and understanding	Optical lens theory	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	6	knowledge and understanding	Optical lens power measurement	Practical + theoretical	Tests The process and tests Theory and reports

The eighth	6	knowledge and understanding	Surface power and shape of a spherical lens	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	6	knowledge and understanding	Glass lenses, their components	Practical + theoretical	Tests The process and tests Theory and reports
tenth	6	knowledge and understanding	Plastic lenses, their characteristics, and how they are made	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports.....etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	The Assistant Book on Eyeglasses
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

146. course name
Specialized refractive errors
147. course code
148. the chapter / year
Second stage, first course
149. date numbers this Description
1/2/2026

150. Available attendance forms

Available attendance forms

151. Number of study hours (total) / Number of units (total)

8/8

152. Name of the course administrator (if more than one name is mentioned)

Name: Dr. Ahmed Shaker Shenawa Email :

153. Course objectives

Course objectives

General objective: The student should be familiar with the general rules of refractive errors in the eye and how to deal with them.
With available devices.

Specific objective: The student should have mastered the examination and diagnosis of visual aberrations in the eye.
And writing a prescription for eyeglasses.

154. Teaching and learning strategies

Strategy

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

Week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	8	knowledge and understanding	Physiological and pathological changes in visual acuity	Practical + theoretical	Tests The process and tests Theory and reports
the second	8	knowledge and understanding	Development of vision in newborns, and the ability integrate	Practical + theoretical	Tests The process and tests Theory and reports

the third	8	knowledge and understanding	Near point, far point, how to measure them	Practical + theoretical	Tests The process and theory and reports
Fourth	8	knowledge and understanding	Accommodation, its definition, and its relationship to visual acuity	Practical + theoretical	Tests The process and theory and reports
Fifth	8	knowledge and understanding	Adaptation mechanism, types of adaptation	Practical + theoretical	Tests The process and theory and reports
Sixth	8	knowledge and understanding	Adaptation distance, adaptive power, how to calculate them	Practical + theoretical	Tests The process and theory and reports
Seventh	8	knowledge and understanding	The relationship between power of accommodation and the distance of accommodation according to the types of refractive error	Practical + theoretical	Tests The process and theory and reports
The eighth	8	knowledge and understanding	Factors that hinder adaptation and lead to variable states of adaptation	Practical + theoretical	Tests The process and theory and reports
Ninth	8	knowledge and understanding	Altered states of adaptation: adaptation stress, adaptation paralysis, weak adaptation, laziness, weak adaptation	Practical + theoretical	Tests The process and theory and reports
Tenth	8	knowledge and understanding	Factors that increase the strength of adaptation	Practical + theoretical	Tests The process and theory and reports
the tenth	8	knowledge and understanding	Accommodation and eye convergence	Practical + theoretical	Tests The process and theory and reports
the second ten	8	knowledge and understanding	The angle of convergence between the eyes, its definition and measurement	Practical + theoretical	Tests The process and theory and reports
the third ten	8	knowledge and understanding	Using prisms to correct the angle of convergence	Practical + theoretical	Tests The process and theory and reports

Fourth ten	8	knowledge and understanding	The relationship between convergence and adaptation	Practical + theoretical	Tests The process and tests Theory and reports
11-Course Evaluation					
distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports etc.					
12-Learning and teaching resources					
Required textbooks (methodology if any)					
Main references (sources)			Refractive Errors Book Project		
Recommended supporting books and references (scientific journals, reports...)					
Electronic references, websites					

Course Description Form

155. course name
General squint
156. course code
157. the chapter / year
Second stage, first course
158. date numbers this Description
1/2/2026
159. Available attendance forms
Available attendance forms
160. Number of study hours (total) / Number of units (total)

161. Name of the course administrator (if more than one name is mentioned)

Name: Dr. Saif Ibrahim raheem

Email :

162. Course objectives**Course objectives**

1/ General objective: that the student be able to recognize the kinds of Squint

2/ Special objective: Students learn the causes of the squint and use it special instruments that can measure the degree of squint.

163. Teaching and learning strategies**Strategy**

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	8	knowledge a understandi	Squint, definition, types	Practical + theoretical	Tests The process and test Theory and reports
the second	8	knowledge a understandi	Squint, causes, complicatio	Practical + theoretical	Tests The process and test Theory and reports
the third	8	knowledge a understandi	Squint, diagnosis, treatmer	Practical + theoretical	Tests The process and test Theory and reports
Fourth	8	knowledge a understandi	Extra ocular, muscles: anatomy, physiology	Practical + theoretical	Tests The process and test Theory and reports

Fifth	8	knowledge and understanding	Innervations, action, conjugate and conjunctive movements	Practical + theoretical	Tests The process and test Theory and reports
Sixth	8	knowledge and understanding	Binocular vision	Practical + theoretical	Tests The process and test Theory and reports
Seventh	8	knowledge and understanding	Heterophoria, definition, types	Practical + theoretical	Tests The process and test Theory and reports
The eighth	8	knowledge and understanding	Heterophoria, causes, symptoms	Practical + theoretical	Tests The process and test Theory and reports
Ninth	8	knowledge and understanding	Heterophoria, diagnosis, treatment	Practical + theoretical	Tests The process and test Theory and reports
tenth	8	knowledge and understanding	Heterotropia, definition, causes	Practical + theoretical	Tests The process and test Theory and reports
atheistic ten	8	knowledge and understanding	Heterotropia, diagnosis, side effect	Practical + theoretical	Tests The process and test Theory and reports
the second ten	8	knowledge and understanding	Heterotropia, types, treatment	Practical + theoretical	Tests The process and test Theory and reports
the third ten	8	knowledge and understanding	Esotropia, definition, types	Practical + theoretical	Tests The process and test Theory and reports
Fourth ten	8	knowledge and understanding	Surgical treatment of squint	Practical + theoretical	Tests The process and test Theory and reports
Fourth ten	8	knowledge and understanding	Types of muscle anomalies	Practical + theoretical	Tests The process and test Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reportsetc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

164. course name
Optical medical devices
165.course code
166. the chapter / year
Second stage, first course
167. date numbers this Description
1/2/2026
168.Available attendance forms
Available attendance forms
169. Number of study hours (total) / Number of units (total)
5/5

170. Name of the course administrator (if more than one name is mentioned)

Name: Asst.prof.dr.abdalla ali gaber Email :

171.Course objectives

Course objectives

General objective: The student will have learned how to operate, maintain and maintain the available optical medical devices and how to use them in optical medical examinations.

Specific objective: The student should have mastered the use of optical medical devices in examination and diagnosis and provide correct results.

172. Teaching and learning strategies

Strategy

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	5	knowledge a understandi	Fundus devicesFundoscopy types and composition	Practical + theoretical	Tests The process and test Theory and reports
the second	5	knowledge a understandi	Methods of use in medical examinations of the fundus the eye	Practical + theoretical	Tests The process and test Theory and reports
the third	5	knowledge a understandi	Natural variables that can seen with these devices	Practical + theoretical	Tests The process and test Theory and reports
Fourth	5	knowledge a understandi	Pathological variables that be seen with these devices	Practical + theoretical	Tests The process and test Theory and reports

Fifth	5	knowledge and understanding	Optical field measuring devices Visual Field Types and Composition	Practical + theoretical	Tests The process and test Theory and reports
Sixth	5	knowledge and understanding	Methods of use in medical examinations to measure the field of vision	Practical + theoretical	Tests The process and test Theory and reports
Seventh	5	knowledge and understanding	Normal indicators that can be seen when examining the visual field with these devices	Practical + theoretical	Tests The process and test Theory and reports
The eighth	5	knowledge and understanding	Pathological indicators that can be seen when examining the visual field with these devices	Practical + theoretical	Tests The process and test Theory and reports
Ninth	5	knowledge and understanding	Corneal examination devices Keratometry types and composition	Practical + theoretical	Tests The process and test Theory and reports
tenth	5	knowledge and understanding	Methods of use in corneal medical examinations	Practical + theoretical	Tests The process and test Theory and reports
eleventh	5	knowledge and understanding	Normal indicators that can be seen when examining the cornea and anterior section of the lens border	Practical + theoretical	Tests The process and test Theory and reports
the second ten	5	knowledge and understanding	Pathological indicators that can be seen when examining the cornea and anterior sections of the lens border	Practical + theoretical	Tests The process and test Theory and reports
the third ten	5	knowledge and understanding	Glaucoma screening and diagnosis devices Glaucoma affecting the eye, its types and composition	Practical + theoretical	Tests The process and test Theory and reports
Fourth ten	5	knowledge and understanding	Methods of use in eye examinations	Practical + theoretical	Tests The process and test Theory and reports

Fourth ten	8	knowledge and understanding	Normal indicators that can identified during medical examinations with these devices	Practical + theoretical	Tests The process and test Theory and reports
Fifth ten	8	knowledge and understanding	Types of muscle anomalies	Practical + theoretical	Tests The process and test Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Medical Optical Devices Book
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

173.course name
eye diseases
174.course code
175. the chapter / year
Second stage, first course
176. date numbers this Description
1/2/2026
177.Available attendance forms

Available attendance forms					
178. Number of study hours (total) / Number of units (total)					
4/4					
179. Name of the course administrator (if more than one name is mentioned)					
Name: dr.ali Razak			Email :		
180.Course objectives					
Course objectives			<p>1/ General objective: To know the most important diseases affecting the eye</p> <p>2/ Special objective: Diagnosed major diseases affecting the eye was able to efficiently sort and refer to specialist eye doctors</p>		
181. Teaching and learning strategies					
Strategy		learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students			
week	watch	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	4	knowledge a understandi	Introduction for ophthalmology	Practical + theoretical	Tests The process and test Theory and reports
the second	4	knowledge a understandi	Examination of the eye	Practical + theoretical	Tests The process and test Theory and reports
the third	4	knowledge a understandi	Disorders of eye lid	Practical + theoretical	Tests The process and test Theory and reports
Fourth	4	knowledge a understandi	Disorders of the conjunctiv	Practical + theoretical	Tests The process and test Theory and reports

Fifth	4	knowledge a understandi	Trachoma, definition and causes	Practical + theoretical	Tests The process and test Theory and reports
Sixth	4	knowledge a understandi	Trachoma grading	Practical + theoretical	Tests The process and test Theory and reports
Seventh	4	knowledge a understandi	Trachoma prevention and treatment	Practical + theoretical	Tests The process and test Theory and reports
The eighth	4	knowledge a understandi	Disorders of the lacrimal drainage system	Practical + theoretical	Tests The process and test Theory and reports
Ninth	4	knowledge a understandi	Disease of the cornea	Practical + theoretical	Tests The process and test Theory and reports
tenth	4	knowledge a understandi	Disease of sclera	Practical + theoretical	Tests The process and test Theory and reports
atheistic ten	4	knowledge a understandi	Disease of lens	Practical + theoretical	Tests The process and test Theory and reports
the second ten	4	knowledge a understandi	Affect of diseases of lens o vision	Practical + theoretical	Tests The process and test Theory and reports
the third ten	4	knowledge a understandi	Glaucoma, definition, type	Practical + theoretical	Tests The process and test Theory and reports
Fourth ten	4	knowledge a understandi	Glaucoma, epidemiology, examination	Practical + theoretical	Tests The process and test Theory and reports
Fifth ten	4	knowledge a understandi	Types of muscle anomalies	Practical + theoretical	Tests The process and test Theory and reports

11-Course Evaluation

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12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

182. course name
Research project
183. course code
184. the chapter / year
First stage, first course
185. date numbers this Description
1/2/2026
186. Available attendance forms
Available attendance forms
187. Number of study hours (total) / Number of units (total)
2/2
188. Name of the course administrator (if more than one name is mentioned)
Name: Email :

Course Description Form

189. course name	
crimes	
190. course code	
191. the chapter / year	
Second stage, first course	
192. date numbers this Description	
1/2/2026	
193. Available attendance forms	
Available attendance forms	
194. Number of study hours (total) / Number of units (total)	
2/2	
195. Name of the course administrator (if more than one name is mentioned)	
Name: Dr. Dhurgham Hassan abd Email :	
196. Course objectives	
Course objectives	
197. Teaching and learning strategies	
Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

Evaluation method	Learning method	Name of unit or topic	Outputs Required learning	
Tests Theory and reports	theoretical	Violations of rights and freedoms	knowledge and understanding	2
Tests Theory and reports	theoretical	A descriptive overview of the political system in Iraq(1921-2003)	knowledge and understanding	2

Tests Theory and reports	theoretical	The Baath regime's violations of public rights and freedoms	knowledge and understanding	2
Tests Theory and reports	theoretical	The impact of the Baath regime's behavior on society and its control over the state	knowledge and understanding	2
Tests Theory and reports	theoretical	The impact of the transitional phase in combating authoritarian politics	knowledge and understanding	2
Tests Theory and reports	theoretical	Psychological field	knowledge and understanding	2
Tests Theory and reports	theoretical	social field	knowledge and understanding	2
Tests Theory and reports	theoretical	Religion and State	knowledge and understanding	2
Tests Theory and reports	theoretical	Culture, media and the militarization of society	knowledge and understanding	2
Tests Theory and reports	theoretical	The impact of oppression and wars on the environment and population	knowledge and understanding	2
Tests Theory and reports	theoretical	The use of international prohibited weapons and environmental pollution	knowledge and understanding	2
Tests Theory and reports	theoretical	scorched earth policy	knowledge and understanding	2

Tests Theory and reports	theoretical	Draining the marshes a forced migration	knowledge and understanding	2
Tests Theory and reports	theoretical	Destruction of the agricultural and animal environment and radioactive contamination	knowledge and understanding	2
Tests Theory and reports	theoretical	Mass graves and bombing of places of worship	knowledge and understanding	2
11- Course Evaluation				
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12- Learning and teaching resources				

Required textbooks (methodology if any)

Tests Theory and reports

theoreti **Quiz**

knowledge 2 and understanding

the third knowledge 2 and understanding

Course Description Form

198. course name
Advanced eyeglasses
199. course code
200. the chapter / year

Second stage, second course

201. date numbers this Description

1/2/2026

202. Available attendance forms

Available attendance forms

203. Number of study hours (total) / Number of units (total)

6/6

204. Name of the course administrator (if more than one name is mentioned)

Name: dr.zaman kareem kadhem

Email

205. Course objectives

Course objectives

General objective: The student should have mastered the technical basics of cutting, trimming and installing lenses.

Frame using available devices.

Specific objective: The student should have learned to a high degree of proficiency how to prepare the prescription, prepare the eyeglasses, and check the conformity.

206. Teaching and learning strategies

Strategy

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watche	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the	6	knowledge an understandin	Advantages of using two-focal length lenses	Practical + theoretical	Tests The process and tests Theory an reports

the second	6	knowledge and understanding	The size and shape of the near part of a two-focal length lens	Practical + theoretical	Tests The process and tests Theory and reports
the third	6	knowledge and understanding	Examples of how to calculate the portion allocated to the relative	Practical + theoretical	Tests The process and tests Theory and reports
Fourth	6	knowledge and understanding	Examples of how to calculate the portion allocated to the relative	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	6	knowledge and understanding	Examples of calculating the mutation resulting from the use of lenses with two focal lengths	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	6	knowledge and understanding	Contact lenses (1)	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	6	knowledge and understanding	Contact lenses (2)	Practical + theoretical	Tests The process and tests Theory and reports
The eighth	6	knowledge and understanding	Types of contact lenses	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	6	knowledge and understanding	How to put contact lenses in the eye	Practical + theoretical	Tests The process and tests Theory and reports
tenth	6	knowledge and understanding	Contact lens stability position in the eye	Practical + theoretical	Tests The process and tests Theory and reports

the c ter	6	knowledge and understandin	Damage caused by misuse of contact lenses	Practical + theoretical	Tests The process and tests Theory an reports
the seco ten	6	knowledge and understandin	How to calculate contact lens	Practical + theoretical	Tests The process and tests Theory an reports
the thirc ten	6	knowledge and understandin	Discussing reports on contact lenses	Practical + theoretical	Tests The process and tests Theory an reports
Four ten	6	knowledge and understandin	Discussing reports on medical lenses	Practical + theoretical	Tests The process and tests Theory an reports
Fifth ten	6	knowledge and understandin	Discussion of reports on eyegla frames	Practical + theoretical	Tests The process and tests Theory an reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student li
Preparation Daily and exams Daily and oral And monthly and editorial and reports.....etc.

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	The Assistant Book on Eyeglasses
Recommended supporting books and reference (scientific journals, reports...)	Principles of eyeglasses
Electronic references, websites	

Course Description Form

207.course name	
Refractive errors applications	
208.course code	
209. the chapter / year	
Second stage, second course	
210. date numbers this Description	
1/2/2026	
211.Available attendance forms	
Available attendance forms	
212. Number of study hours (total) / Number of units (total)	
8/8	
213. Name of the course administrator (if more than one name is mentioned)	
Name: Dr. Ahmed Shaker Shenawa Email :	
214.Course objectives	
Course objectives	<p>General objective: The student should be familiar with the general rules of refractive errors in the eye and how to deal with them.</p> <p style="text-align: center;">With available devices.</p> <p>Specific objective: The student should have mastered the examination and diagnosis of visual aberrations in the eye.</p> <p style="text-align: center;">And writing a prescription for eyeglasses.</p>
215. Teaching and learning strategies	
Strategy	learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

study the condition The process To check group from who They suffer from mistakes refraction or Devices And also a job glasses T process Causes error refractive

week	watche	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	8	knowledge and understandin	Review of a case of visual impairment	Practical + theoretical	Tests The process a tests Theory and reports
the second	8	knowledge and understandin	Diagnosis of astigmatism	Practical + theoretical	Tests The process a tests Theory and reports
the third	8	knowledge and understandin	Organized visual impairment	Practical + theoretical	Tests The process a tests Theory and reports
Fourth	8	knowledge and understandin	Compound vision impairment1	Practical + theoretical	Tests The process a tests Theory and reports
Fifth	8	knowledge and understandin	Compound vision impairment2	Practical + theoretical	Tests The process a tests Theory and reports
Sixth	8	knowledge and understandin	Mixed vision difficulty1)	Practical + theoretical	Tests The process a tests Theory and reports
Seventh	8	knowledge and understandin	Mixed vision difficulty2)	Practical + theoretical	Tests The process a tests Theory and reports
The eighth	8	knowledge and understandin	Use of crossed lensesCross cylin	Practical + theoretical	Tests The process a tests Theory and reports

Ninth	8	knowledge and understanding	unequal refraction of the eye Anisometria	Practical + theoretical	Tests The process a tests Theory and reports
tenth	8	knowledge and understanding	contact lenses	Practical + theoretical	Tests The process a tests Theory and reports
atheistic te	8	knowledge and understanding	Contact lenses, types	Practical + theoretical	Tests The process a tests Theory and reports
the second ten	8	knowledge and understanding	Applications	Practical + theoretical	Tests The process a tests Theory and reports
the third t	8	knowledge and understanding	Correcting refractive errors in eye with the process of phakic surgery	Practical + theoretical	Tests The process a tests Theory and reports
Fourth ten	8	knowledge and understanding	Applications (1)	Practical + theoretical	Tests The process a tests Theory and reports
Fifth ten	8	knowledge and understanding	Applications (2)	Practical + theoretical	Tests The process a tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reportsetc.

12-Learning and teaching resources

Required textbooks (methodology if any)

Main references (sources)

Book project Refractive error

Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

216. course name	
Advanced squint	
217. course code	
218. the chapter / year	
Second stage, second course	
219. date numbers this Description	
1/2/2026	
220. Available attendance forms	
Available attendance forms	
221. Number of study hours (total) / Number of units (total)	
8/8	
222. Name of the course administrator (if more than one name is mentioned)	
Name: Dr. Saif Ibrahim raheem Email :	
223. Course objectives	
Course objectives	<p>1/ General objective: that the student be able to recognize the kinds of Squint</p> <p>2/ Special objective: Students learn the causes of the squint and use it special instruments that can measure the degree of squint.</p>
224. Teaching and learning strategies	

Strategy learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watche	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	8	knowledge a understandi	Difference between alternati and unilateral esotropia	Practical + theoretical	Tests The process and test Theory and reports
the secon	8	knowledge a understandi	Treatment of non accommodative esotropia an accommodative esotropia	Practical + theoretical	Tests The process and test Theory and reports
the third	8	knowledge a understandi	Hypertropia, definition, characters	Practical + theoretical	Tests The process and test Theory and reports
Fourth	8	knowledge a understandi	Hypertropia, diagnosis	Practical + theoretical	Tests The process and test Theory and reports
Fifth	8	knowledge a understandi	Hypertropia, treatment	Practical + theoretical	Tests The process and test Theory and reports
Sixth	8	knowledge a understandi	Exotropia, definition, causes	Practical + theoretical	Tests The process and test Theory and reports
Seventh	8	knowledge a understandi	Exotropia, types, diagnosis	Practical + theoretical	Tests The process and test Theory and reports
The eight	8	knowledge a understandi	Exotropia, characters, treatment	Practical + theoretical	Tests The process and test Theory and reports

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Ninth	8	knowledge a understandi	Amblyopia, definition, cause	Practical + theoretical	Tests The process and test Theory and reports
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tenth	8	knowledge a understandi	Amblyopia, diagnosis, treatment	Practical + theoretical	Tests The process and test Theory and reports
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atheistic t	8	knowledge a understandi	Nystamus, causes, types, treatment	Practical + theoretical	Tests The process and test Theory and reports
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the second	8	knowledge and understanding	Convergence insufficiency, definition, symptoms, diagnosis	Practical + theoretical	Tests The process and test Theory and reports
the third	8	knowledge and understanding	Characters, treatment	Practical + theoretical	Tests The process and test Theory and reports
Fourth term	8	knowledge and understanding	Paralytic squint, definition, characters	Practical + theoretical	Tests The process and test Theory and reports
Fourth term	8	knowledge and understanding	Diagnosis treatment	Practical + theoretical	Tests The process and test Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports..... et

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

225. course name
Optical devices
226. course code
227. the chapter / year
Second stage, second course
228. date numbers this Description

25/3/2025

229. Available attendance forms

Available attendance forms

230. Number of study hours (total) / Number of units (total)

4/4

231. Name of the course administrator (if more than one name is mentioned)

Name: asst.prof.dr.abdalla ali gaber Email :

232. Course objectives

Course objectives

General objective: The student will have learned how to operate, maintain and maintain the available optical medical devices and how to use them in optical medical examinations.

Specific objective: The student should have mastered the use of optical medical devices in examination and diagnosis and provide correct results.

233. Teaching and learning strategies

Strategy

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watche	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
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the first	4	knowledge and understanding	Pathological indicators that be identified during medical examinations with these devices	Practical + theoretical	Tests The process and test Theory and reports
the second	4	knowledge and understanding	Devices for examining visual impairment cases Astigmatic types and composition	Practical + theoretical	Tests The process and test Theory and reports
the third	4	knowledge and understanding	Methods of use in medical examinations	Practical + theoretical	Tests The process and test Theory and reports
Fourth	4	knowledge and understanding	Normal indicators that can identified during examination with these devices	Practical + theoretical	Tests The process and test Theory and reports
Fifth	4	knowledge and understanding	Pathological indicators that be identified during examinations with these devices	Practical + theoretical	Tests The process and test Theory and reports
Sixth	4	knowledge and understanding	Javal Keratometer Javal Keratometer installation and specifications	Practical + theoretical	Tests The process and test Theory and reports
Seventh	4	knowledge and understanding	How to use it in corneal examination	Practical + theoretical	Tests The process and test Theory and reports
The eighth	4	knowledge and understanding	Devices for examining vision both eyes and diagnosing strabismus and strabismus of all types, and installing them	Practical + theoretical	Tests The process and test Theory and reports
Ninth	4	knowledge and understanding	Methods of use in examination	Practical + theoretical	Tests The process and test Theory and reports
tenth	4	knowledge and understanding	Normal indicators that can identified during examination with these devices	Practical + theoretical	Tests The process and test Theory and reports
eleventh	4	knowledge and understanding	Pathological indicators that be identified during examination with these devices	Practical + theoretical	Tests The process and test Theory and reports
the second ten	4	knowledge and understanding	Devices for examining and diagnosing cases of squints in the eye, their types and installation	Practical + theoretical	Tests The process and test Theory and reports

the third	4	knowledge and understanding	Methods of use in examination	Practical + theoretical	Tests The process and test Theory and reports
Fourth te	4	knowledge and understanding	Normal indicators that can be identified during examination with these devices	Practical + theoretical	Tests The process and test Theory and reports
Fourth te	4	knowledge and understanding	Pathological indicators that be identified during examination with these devi	Practical + theoretical	Tests The process and test Theory and reports
Fifth ten	4	knowledge and understanding	Types of muscle anomalies	Practical + theoretical	Tests The process and test Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports et

12-Learning and teaching resources

Required textbooks (methodology if any)	
Main references (sources)	Medical Optical Devices Book
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

234.course name	eye diseases
235. course code	
236. the chapter / year	

Second stage, second course

237. date numbers this Description

1/2/2026

238. Available attendance forms

Available attendance forms

239. Number of study hours (total) / Number of units (total)

4/4

240. Name of the course administrator (if more than one name is mentioned)

Name: dr.ali Razak hussain

Email :

241. Course objectives

Course objectives

1/ General objective: To know the most important diseases affecting the eye

2/ Special objective: Diagnosed major diseases affecting the eye was able to efficiently sort and refer to specialist eye doctors

242. Teaching and learning strategies

Strategy

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watche	Outputs Required learning	Name of unit or topic	Learning method	Evaluation method
the first	4	knowledge a understandi	Optic nerve, its disorders	Practical + theoretical	Tests The process and tests Theory and reports
the secon	4	knowledge a understandi	Retina detachment	Practical + theoretical	Tests The process and tests Theory and reports
the third	4	knowledge a understandi	Eye injury	Practical + theoretical	Tests The process and tests Theory and reports

Fourth	4	knowledge and understanding	Trauma, causes, prevention	Practical + theoretical	Tests The process and tests Theory and reports
Fifth	4	knowledge and understanding	Foreign bodies of the eye	Practical + theoretical	Tests The process and tests Theory and reports
Sixth	4	knowledge and understanding	Burns of the eye	Practical + theoretical	Tests The process and tests Theory and reports
Seventh	4	knowledge and understanding	Systemic disease affects the (1)	Practical + theoretical	Tests The process and tests Theory and reports
The eight	4	knowledge and understanding	Systemic disease affects the (2)	Practical + theoretical	Tests The process and tests Theory and reports
Ninth	4	knowledge and understanding	Drugs used in ophthalmology	Practical + theoretical	Tests The process and tests Theory and reports
tenth	4	knowledge and understanding	Types of drugs used in ophthalmology	Practical + theoretical	Tests The process and tests Theory and reports
eleventh	4	knowledge and understanding	Action and side effects of drugs	Practical + theoretical	Tests The process and tests Theory and reports
the second	4	knowledge and understanding	Blindness, epidemiology	Practical + theoretical	Tests The process and tests Theory and reports
the third	4	knowledge and understanding	Blindness causes	Practical + theoretical	Tests The process and tests Theory and reports
Fourth ten	4	knowledge and understanding	Malingral and hysterical blindness	Practical + theoretical	Tests The process and tests Theory and reports
Fifth ten	4	knowledge and understanding	Review and examination	Practical + theoretical	Tests The process and tests Theory and reports

11-Course Evaluation

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports etc.

12-Learning and teaching resources	
Required textbooks (methodology if any)	
Main references (sources)	
Recommended supporting books and references (scientific journals, reports...)	
Electronic references, websites	

Course Description Form

243.course name	
Professional ethics	
244. course code	
245. the chapter / year	
Second stage, second course	
246. date numbers this Description	
1/2/2026	
247.Available attendance forms	
Available attendance forms	
248. Number of study hours (total) / Number of units (total)	
2/2	
249. Name of the course administrator (if more than one name is mentioned)	
Name: dr.waleed abd alkareem Email :	
250.Course objectives	
Course objectives	
251. Teaching and learning strategies	

Strategy	<p>General: - Identify the basic ethics of professional conduct for workers in medical specialties.</p> <p>Special: Qualifying the graduate on professional behavior in dealing with his profession and achieving harmony with himself and his professional environment (the patient, his companions, health workers, and medical devices).</p>
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Evaluation method	Learning method	Name of unit or topic	Outputs	watche	week
Tests Theory and reports	theoretical	<p>General: - Identify the basic ethics of professional conduct for workers in medical specialties.</p>	knowledge and understanding	2	the first
Tests Theory and reports	theoretical	<p>Special: Qualifying the graduate on professional behavior in dealing with his profession and achieving harmony with himself and his professional environment (the patient, his companions, health workers, and medical devices).</p>	knowledge and understanding	2	the second
Tests Theory and reports	theoretical	<p>General: - Identify the basic ethics of professional conduct for workers in medical specialties.</p>	knowledge and understanding	2	the third
Tests Theory and reports	theoretical	<p>Special: Qualifying the graduate on professional behavior in dealing with his profession and achieving harmony with himself and his</p>	knowledge and understanding	2	Fourth

behavior in dealing with his profession and achieving harmony with himself and his

		professional environment (the patient, his companions, health workers, and medical devices).			
Tests Theory and reports	theoretical	General: - Identify the basic ethics of professional conduct for workers in medical specialties.	knowledge and understanding	2	Fifth
Tests Theory and reports	theoretical	Special: Qualifying the graduate on professional behavior in dealing with his profession and achieving harmony with himself and his professional environment (the patient, his companions, health workers, and medical devices).	knowledge and understanding	2	Sixth
Tests Theory and reports	theoretical	General: - Identify the basic ethics of professional conduct for workers in medical specialties.	knowledge and understanding	2	Seventh
Tests Theory and reports	theoretical	Special: Qualifying the graduate on professional behavior in dealing with his profession and achieving harmony with himself and his professional environment (the patient, his companions, health workers, and medical devices).	knowledge and understanding	2	The eight

Tests Theory and reports	theoretical	General: - Identify the basic ethics of professional conduct for workers in medical specialties.	knowledge and understanding	2	Ninth
Tests Theory and reports	theoretical	Special: Qualifying the graduate on professional behavior in dealing with his profession and achieving harmony with himself and his professional environment (the patient, his companions, health workers, and medical devices).	knowledge and understanding	2	tenth
Tests Theory and reports	theoretical	General: - Identify the basic ethics of professional conduct for workers in medical specialties.	knowledge and understanding	2	atheistic t
Tests Theory and reports	theoretical	Special: - Qualifying the graduate on professional behavior in dealing with his profession and achieving harmony with himself and his professional environment (the patient, his companions, health workers, and medical devices).	knowledge and understanding	2	the second
Tests Theory and reports	theoretical	General: - Identify the basic ethics of professional conduct for workers in medical specialties..	knowledge and understanding	2	the third

Tests Theory and reports	theoretical	Introduction to linguistic errors - the closed and long taa and the open taa	knowledge and understanding	2	Fourth te
Tests Theory and reports	theoretical	Rules for writing the extended and shortened alif - solar and lunar letters	knowledge and understanding	2	Fifth ten
Tests The process and tests Theory and reports	Practical + theoretical	Lens maker's equation, power of lens			knowledge
reports		Aberrations of lens, chromatic aberrations, monochromatic aberrations			
		Coma aberration, Astigmatism, field curvatures, Distortion aberration			
		The Eye and the Optical Instruments			
		Main references (sources)			
		Recommended supporting books and references (scientific journals, reports...)			
		Electronic references, websites			

Course Description Form

252. course name
Arabic
253. course code
254. the chapter / year
First stage, second course
255. date numbers this Description

1/2/2026

256. Available attendance forms

Available attendance forms

257. Number of study hours (total) / Number of units (total)

2/2

258. Name of the course administrator (if more than one name is mentioned)

Name: dr.waleed abd alkareem

Email :

259. Course objectives

Course objectives

260. Teaching and learning strategies

Strategy

learning Interactive Includes Use Discussions collective and discussions small and activities Interactive To encourage Participation active And exchange Ideas between students

week	watch	Output Requi learnin	Name of unit or topic	Learning method	Evaluation method
the first	2	knowled and understa ng	Introduction to linguisti errors - the closed and long taa and the open t	theoretical	Tests Theory and reports
the second	2	knowled and understa ng	Rules for writing the extended and shortene alif - solar and lunar letters	theoretical	Tests Theory and reports
the third	2	knowled and understa ng	Dad and Tha	theoretical	Tests Theory and reports
Fourth	2	knowled and understa ng	Writing the hamza	theoretical	Tests Theory and reports

Fifth	2	knowled and understa ng	punctuation marks	theoretical	Tests Theory and reports
Sixth	2	knowled and understa ng	Noun, verb, and the difference between the	theoretical	Tests Theory and reports
Seventh	2	knowled and understa ng	Effects	theoretical	Tests Theory and reports
The eight	2	knowled and understa ng	Number	theoretical	Tests Theory and reports
Ninth	2	knowled and understa ng	Common language erro applications	theoretical	Tests Theory and reports
tenth	2	knowled and understa ng	Noon and Tanween - Meanings of Prepositio	theoretical	Tests Theory and reports
atheistic	2	knowled and understa ng	Formal aspects of administrative discours	theoretical	Tests Theory and reports
the secon ten	2	knowled and understa ng	Language of administrative discourse	theoretical	Tests Theory and reports
the third	2	knowled and understa ng	Examples of administrative correspondence	theoretical	Tests Theory and reports
Fourth te	2	knowled and understa ng	Introduction to linguistic errors - the closed and long taa and the open taa	theoretical	Tests Theory and reports
Fifth ten	2	knowled and	Rules for writing the extended and	theoretical	Tests Theory and reports

		understa ng	shortened alif - solar and lunar letters		
11-Course Evaluation					
distribution degree from 100 on according to Tasks The person in charge With it The stude like Preparation Daily and exams Daily and oral And monthly and editorial and reports.....e					
12-Learning and teaching resources					
Required textbooks (methodology if any)					
Main references (sources)					
Recommended supporting books and references (scientific journals, reports...)					
Electronic references, websites					

Course Description Form

261. course name
Research project
262.course code
263. the chapter / year
Second stage, second course
264. date numbers this Description
1/2/2026
265.Available attendance forms
Available attendance forms
266. Number of study hours (total) / Number of units (total)
2/2
267. Name of the course administrator (if more than one name is mentioned)

Name: Email :