

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



# **Academic Program and Course Description Guide**

**2024**

## Introduction:

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

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

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

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

## Concepts and Terminology:

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

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

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

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

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

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

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

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

### Academic Program Description Form

University Name: Al-Awsat Technical University

Faculty/Institute: Najaf Technical Institute

Scientific Department: Optometry

Academic or Professional Program Name: Diploma in Optometry techniques

Final Certificate Name: Diploma in Optometry techniques

Academic System: Semester System

Description Preparation Date: 25/3/2024

File Completion Date: 26/3/2024

Signature: 

Head of Department Name:

Assist. Prof. Dr Haider Azeez Ali

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Lect. Dr. Mohammad Najeh Nimah

Date: 08-05-2024

Signature: 



Signature: 

Scientific Associate Name:

Dr. Salah Mahdi Saleh

Date:



Approval of the Dean

Prof. Haider Hassan Abd Huss

### **1. Program Vision**

The department aims to graduate specialized medical technical staff qualified to work in eye hospitals and health centers, in addition to participating in health campaigns on prevention and eye health.

### **2. Program Mission**

The department was established due to the widespread use of medical glasses and lenses, and as a result there was a strong need for optometrists and optical instrument technicians in governmental and non-governmental health institutions. The Department of Vision Screening Techniques should have a distinguished scientific standing in the scientific and academic community locally and internationally, and conduct effective and influential applied courses in the technical and health fields, thus meeting the needs of society and the requirements of the labor market.

One of the department's main tasks is to prepare highly trained cadres in the field of vision specialization, diagnosis of eye diseases, and the manufacture of glasses and contact lenses. The graduate is distinguished by a high level of knowledge and creativity in dealing with the medical devices used in examining and diagnosing vision problems and what is compatible with internationally approved medical standards for quality assurance. And academic accreditation in analyzing results according to life statistics methods and corresponding medical programs in Iraqi universities.

### **3. Program Objectives**

- 1- The student must have mastered the technical basics of cutting and refining lenses and installing them in the frame using available equipment.
- 2- The student must have learned with a high degree of proficiency how to carry out the prescription, prepare the medical glasses, and check the conformity.

#### 4. Program Accreditation

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

#### 5. Other external influences

Hospital Field visits and graduation projects .

#### 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	3	6	4.23	
College Requirements	17	49	34.50	
Department Requirements	14	87	61.27	
Summer Training	80			
Other				

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

#### 7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First Year/ First Trimesters		Principles of Eyeglasses	2	4
First Year/ First Trimester		Principles of refractive errors		
First Year/ First Trimester		Medical physics		
First Year/ First Trimesters		Eye Anatomy		
First Year/ First Trimester		Nursing		
First Year/ First Trimester		Computer Applications		
First Year/ First Trimester		Human rights and democracy		
First Year/ First Trimester		English		
First Year/ Second Trimester		Therapeutic glasses		
First Year/ Second Trimester		General Refractive Errors		

<b>First Year/ Second Trimester</b>		<b>Optical physics</b>		
<b>First Year/ Second Trimester</b>		<b>Eye Physiology</b>		
<b>First Year/ Second Trimester</b>		<b>Medical biology</b>		
<b>First Year/ Second Trimester</b>		<b>Ocular health</b>		
<b>First Year/ Second Trimester</b>		<b>Computer Applications</b>		
<b>First Year/ Second Trimester</b>		<b>Arabic Language</b>		
<b>Second Year/ First Trimester</b>		<b>General Eye Glasses</b>		
<b>Second Year/ First Trimester</b>		<b>Specialized Refractive Errors</b>		
<b>Second Year/ First Trimester</b>		<b>General Strabismus</b>		
<b>Second Year/ First Trimester</b>		<b>Optical Medical devices</b>		
<b>Second Year/ First Trimester</b>		<b>Eyes Diseases</b>		
<b>Second Year/ First Trimester</b>		<b>Computer Applications</b>		
<b>Second Year/ First Trimester</b>		<b>English</b>		
<b>Second Year/ First Trimester</b>		<b>Research project</b>		
<b>Second Year/First Trimester</b>		<b>Baath Party Crimes</b>		
<b>Second Year/ Second Semester</b>		<b>Advanced Glasses Prescription</b>		
<b>Second Year/ Second Semester</b>		<b>Applications of Refractive Errors</b>		
<b>Second Year/ Second Trimester</b>		<b>Complex Strabismus</b>		
<b>Second Year/ Second trimester</b>		<b>Optical equipment</b>		
<b>Second Year/ Second Trimester</b>		<b>Eyes diseases</b>		
<b>Second Year/ Second Trimester</b>		<b>Profession's Ethics</b>		
<b>Second Year/ Second Trimester</b>		<b>Computer Applications</b>		
<b>Second Year/ Second Trimester</b>		<b>Research Project</b>		
<b>Second Year/ Second Trimester</b>		<b>Arabic Language</b>		

### 8. Teaching and Learning Strategies

- 1- Classroom education through theoretical and scientific lectures
- 2- Interactive lessons Interactive lessons can be used such as group discussions, collaborative activities, and practical exercises to encourage active student participation.
- 3- Preparing scientific reports and research

### 9. Evaluation methods

Oral exams, written exams, semester exams, final exams, daily evaluation.

### 10. Faculty

#### Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assist Professor	1				1	
Lecturer	3	3			6	
Assist. Lecturer	4	1			5	
Board in Ophthalmology		2			2	

#### Professional Development

##### Mentoring new faculty members

Conducting seminars, workshops, and courses to familiarize new staff with the vision, mission, and goals of the department, institute, and college, as well as professional ethics and behavior.

##### Professional development of faculty members

Cross-fertilization of academic and research ideas. Teaching staff in the department are directed regarding research, solid publishing, participation in scientific conferences, and holding ongoing workshops and seminars on the general and precise specializations of teaching staff in the department.



### **11. Acceptance Criterion**

**- Students accepted within the central admission channel for biological branch students and within the minimum admission limit**

### **12. The most important sources of information about the program**

The university or institute website. Visit the university or institute website to view the vision screening techniques program, through which you can obtain detailed information about the academic courses, admission requirements, costs, time period, important dates, practical experience, and academic members.

### **13. Program Development Plan**

1- Developing curricula through communication with the Committee of Deans of Health and Medical Technologies and according to continuous updating

2- Continuous updating according to the requirements of the labor market.

**Program Skills Outline**

				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First Year/ First Trimester		Principles of Medical Glasses	Basic												
		Principles of Refractive Error	Basic												
First Year/ First Trimester		Medical Physics	Basic												
		Eye Anatomy	Basic												
First Year/ First Trimester		Nursing	Basic										√		
		Computer Applications	Basic												
First Year/ First Trimester		Human Rights	Basic												
		English Language	Basic												
First Year / Second Trimester		Therapeutic Glasses	Basic												
First Year / Second Trimester		General Refractive Errors	Basic												

<b>First Year / Second Trimester</b>		<b>Optical Physics</b>	<b>Basic</b>												
<b>First Year / Second Trimester</b>		<b>Eye Physiology</b>	<b>Basic</b>												
<b>First Year / Second Trimester</b>		<b>Eye Biology</b>	<b>Basic</b>												
<b>First Year / Second Trimester</b>		<b>Ocular Health</b>	<b>Basic</b>												
<b>First Year / Second Trimester</b>		<b>Computer Applications</b>	<b>Basic</b>												
<b>First Year / Second Trimester</b>		<b>Arabic Language</b>	<b>Basic</b>												
<b>Second Year/ First Trimester</b>		<b>Specialized Refractive Error</b>	<b>Basic</b>												
<b>Second Year/ First Trimester</b>		<b>General Strabismus</b>	<b>Basic</b>												
<b>Second Year/ First Trimester</b>		<b>Optical Medical Equipment</b>	<b>Basic</b>												

<b>Second Year/ First Trimester</b>		<b>Eye Diseases</b>	<b>Basic</b>												
<b>Second Year/ First Trimester</b>		<b>Computer Applications</b>	<b>Basic</b>												
<b>Second Year/ First Trimester</b>		<b>English Language</b>	<b>Basic</b>												
<b>Second Year/ First Trimester</b>		<b>Research Project</b>	<b>Basic</b>												
<b>Second Year/ First Trimester</b>		<b>Baath Party Crimes</b>	<b>Basic</b>												
<b>Second Year/ Second Trimester</b>		<b>Application of Refractive Errors</b>	<b>Basic</b>												
<b>Second Year/ Second Trimester</b>		<b>Complex Strabismus</b>	<b>Basic</b>												
<b>Second Year/ Second Trimester</b>		<b>Optical Equipment</b>	<b>Basic</b>												
<b>Second Year/ Second Trimester</b>		<b>Eye diseases</b>	<b>Basic</b>												

Second Year/ Second Trimester		Profession's Ethics	Basic												
Second Year/ Second Trimester		Computer Applications	Basic												
Second Year/ Second Trimester		Research Project	Basic												
Second Year/ Second Trimester		Arabic Language	Basic												

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

## Course Description Form

1. Course Name:					
2. Course Code:					
3. Semester / Year:					
4. Description Preparation Date:					
5. Available Attendance Forms:					
6. Number of Credit Hours (Total) / Number of Units (Total)					
7. Course administrator's name (mention all, if more than one name)					
Name: Assis.Prof. Haidar Aziz Ali Email: haider.ali.inj@atu.edu.iq					
8. Course Objectives					
<b>Course Objectives:</b> The general goal is for the student to have familiarity with the technical basics of cutting, refining, and installing lenses Frame using available hardware  The specific goal is for the student to have learned with a high degree of proficiency how to implement the recipe and prepare it Medical glasses and conformity check				<ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>	
9. Teaching and Learning Strategies					
<b>Strategy</b>					
10. Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
11. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc					
12. Learning and Teaching Resources					

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

### Course Description Form

<b>13. Course</b>	
Principles of Medical Classes	
<b>14. Course Code</b>	
<b>15. Year/ Trimester</b>	
First Year/ First Trimester	
<b>16. Course Description Date</b>	
2024/3/25	
<b>17. Available forms of attendance</b>	
<b>18. Total Number of Study Hours / Total number of Units</b>	
6/6	
<b>19. Course's Instructor's Name</b>	
Assist. Prof. Dr .Haidar Aziz <a href="mailto:haider.ali.inj@atu.edu.iq">haider.ali.inj@atu.edu.iq</a>	
<b>20. Course Objectives</b>	
<p>The general goal is for the student to have familiarity with the technical basics of cutting, refining, and installing lenses Frame using available hardware</p> <p>The specific goal is that the student has learned with a high degree of proficiency how to implement the recipe and prepare it Medical glasses and conformity check</p>	
<b>21. Teaching and Learning Strategies</b>	
<p>Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students</p> <p>A practical case study for examining a group of people suffering from visual impairment on devices, as well as making glasses to treat cases of eye failure and myopia.</p>	

Week	Hours	Outputs Required learning	Name of the unit or topic	Learning Method	Evaluation method
First	6	Knowledge and understanding	Medical glasses, their parts, types	Practical+ Theoretical	Practical tests, theoretical tests and reports
Second	6	Knowledge and understanding	Optical Lenses	Practical+ Theoretical	Practical tests, theoretical tests and reports
Third	6	Knowledge and understanding	Types of lenses and their manufacture	Practical+ Theoretical	Practical tests, theoretical tests and reports
Fourth	6	Knowledge and understanding	Lenses Measuring Units	Practical+ Theoretical	Practical tests, theoretical tests and reports
الخامس	6	Knowledge and understanding	Extracting lens axes	Practical+ Theoretical	Practical tests, theoretical tests and reports
Sixth	6	Knowledge and understanding	Equation of lens axes	Practical+ Theoretical	Practical tests, theoretical tests and reports
Seventh	6	Knowledge and understanding	How to write lens power	Practical+ theoretical	Practical tests, theoretical tests and reports
Eighth	6	Knowledge and understanding	Writing the Medical prescription	Practical+ Theoretical	Practical tests, theoretical tests and reports
Nineth	6	Knowledge and understanding	Types of phosmeter device	Practical+ Theoretical	Practical tests, theoretical tests and reports
Tenth	6	Knowledge and understanding	Measuring the power of the lens with a phosmeter	Practical+ Theoretical	Practical tests, theoretical tests and reports
Eleventh	6	Knowledge and understanding	Prescription eyeglass frames, types, and parts	Practical+ Theoretical	Practical tests, theoretical tests and reports
Twelfth	6	Knowledge and understanding	Materials used in frame manufacture	Practical+ Theoretical	Practical tests, theoretical tests and reports



<b>Thirteenth</b>	<b>6</b>	<b>Knowledge and understanding</b>	<b>Natural and synthetic materials used in making eyeglass frames</b>	Practical+ Theoretical	Practical tests, theoretical tests and reports
<b>Fourteenth</b>	<b>6</b>	<b>Knowledge and understanding</b>	<b>Metal materials used in the manufacture of eyeglass frames(1)</b>	Practical+ Theoretical	Practical tests, theoretical tests and reports
<b>Fifteenth</b>	<b>6</b>	<b>Knowledge and understanding</b>	<b>Metal materials used in the manufacture of eyeglass frames(2)</b>	Practical+ Theoretical	Practical tests, theoretical tests and reports

11 .Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

12 Teaching and Learning

Sources

Required textbooks (methodology, if any)

Main References

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

Electronic references, Internet sites

**Supportive book on eyeglasses**

**Medical Glasses Principles**

**Course description form**

22. Course Title	
Refractive Errors	
23. Course Symbol	
24. Year/ Trimester	
First Year/ First Trimester	
25. 13. Date this description was prepared	
2024/3/25	
26. . Available forms of attendance	
Available forms of attendance	
27. 15. Number of study hours (total)/number of units (total)	
8/8	
28. 16. Name of the course administrator (if more than one name is mentioned)	
Lect .Dr. Mustafa Salim Muhammad	
29. Course Aims	
<b>Aims of the Study Topics</b>	<p>1. The student should be able to identify and diagnose refractive errors in the eye</p> <p>.2Training the student on how to examine refractive errors in the eye and write a prescription</p>
30. Teaching and learning strategies	
<b>Strategies</b>	<p>Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students</p> <p>A practical case study for examining a group of people suffering from refractive errors on devices, as well as making glasses treat cases of refractive error</p>

Week	Hours	Outputs of the Wanted Learning	Name of the Topic and Units	Learning Method	Evaluation Method
<b>First</b>	<b>8</b>	<b>Knowledge and Understanding</b>	Errors of refraction in the eye ,its definition, general bases	Practical+ Theoretical	ical tests, theoretical tests and reports
<b>Second</b>	<b>8</b>	<b>Knowledge and Understanding</b>	dioptric system of the eye ,the path of the light ,its refraction thought the dioptric system, How does the eye see	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Third</b>	<b>8</b>	<b>Knowledge and Understanding</b>	A new classification of the types of Hypermetropia	+Practical Theoretical	Practical tests, theoretical tests and reports
<b>Fourth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	Sensitivity of the retina to light	+Practical Theoretical	Practical tests, theoretical tests and reports
<b>Fifth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	colors and color blindness	Practical+ Theoretical	Practical tests, theoretical tests and reports
<b>Sixth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	visual acuity charts, its types	+Practical Theoretical	Practical tests, theoretical tests and reports
<b>Seventh</b>	<b>8</b>	<b>Knowledge and Understanding</b>	The effect of conditioning on myopia and f	+Practical	Practical tests, theoretical tests and reports

		<b>Understanding</b>	Hypermetropia	Theoretical	reports
<b>Eighth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	the waysof treatment Hypermetropia	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Ninth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	Presbyopia	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Tenth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	Myopia,etology and its types	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Eleventh</b>	<b>8</b>	<b>Knowledge and Understanding</b>	Re-explanation and clarification of the idea of the pin with illustrative examples	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Twelfth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	Astigmatism ,etiology and its types	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Thirteenth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	the ways of treatment Astigmatism	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Fourteenth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	visual acuity	+Practical Theoretical	ical tests, theoretical tests and reports
<b>Fifteenth</b>	<b>8</b>	<b>Knowledge and Understanding</b>	Examination of distance visual acuity	+Practical Theoretical	ical tests, theoretical tests and reports

#### 11. Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams and reports

#### 12. Sources of Teaching and Learning

The Course Textbooks	
The Main References	<b>Book project Refractive error</b>
The supportive books and references ( magazines and reports)	
Electronic sources and Internet.	

**Course Description Form**

18. Course Title	Medical Physics
31. Course symbol	
32. Year/ Trimester	First Year/ First Course
33. Date of preparing this file	2024/3/25
34. Available kinds of attendance	Available kinds of attendance
35. Number of total hours/ Number of total units	6/6
36. Name of the Study Course'	Lect .Dr. Raneem Muhammed Abbas
37. Aims of Course	<p><b>1. General Goal: Students should be acquainted with the basics of light.</b>  <b>2. Specific aim: knowing the two phenomena of reflection and refraction through surfaces. The reflected and the refracted and the rules related to.</b></p>
38. Strategies Learning and Teaching	<p>الاستراتيجية Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students          Studying the types of lenses, knowing whether they are concave or convex, diagnosing prisms, and knowing the diffraction of</p>

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	6	<b>Learning and Understanding</b>	Occupational safety programs and work quality assurance.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	6	<b>Learning and Understanding</b>	The concept of occupational safety and its rules.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	6	<b>Learning and Understanding</b>	The light , nature of the light , light sources , the theories of the	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	6	<b>Learning and Understanding</b>	The electromagnetic spectrum	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	6	<b>Learning and Understanding</b>	Velocity of the light, Frequency and energy of the visible light	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	6	<b>Learning and Understanding</b>	The reflection, the laws of reflection, reflection at plane and spherical surfaces	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	6	<b>Learning and Understanding</b>	Propagation and Reflection of Light	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Eighth</b>	<b>6</b>	<b>Learning and Understanding</b>	Mirrors , types of mirrors , properties of the image formed by plane mirrors , properties of image formed by plane mirror	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	<b>6</b>	<b>Learning and Understanding</b>	Spherical mirrors , center of curvature , axis , vertices , focal length	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Concave mirror , properties of image formed by concave mirror	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	<b>6</b>	<b>Learning and Understanding</b>	Convex mirror , properties of image formed by convex mirror	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>6</b>	<b>Learning and Understanding</b>	Real and virtual images formed by reflected surfaces	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Refraction , the laws of refraction , refraction by plane surfaces	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	The refractive index , relative refractive index	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Factors affecting the refractive index	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project Optical physics

	The Syllabus Course
	The Main References
	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

### Course Description Form

39. Course Title	
Eye Anatomy	
40. Course Symbol	
41. Year/ Trimester	
First Year/ First Trimester	
42. Date of Course Preparation	
2024/3/25	
43. Forms of permitted attendance	
44. Total Study hours / Total units	
3/3	
45. Name of the Course instructor	
Lect. Dr Israa Muhammad Ryadh	
46. Course Aims	
	<b>Preparing students to understand the academic subjects related to eye Anatomy basics and eye functions</b> Knowing the eye parts and their functions in detail.
47. Teaching and Learning Strategies	
Interactive leaning ensures using group discussion and activities to encourage participation in ideas between students	

Week	hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	<b>3</b>	<b>Learning and Understanding</b>	General information about the eye and its function	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	<b>3</b>	<b>Learning and Understanding</b>	Anatomy of the eye ball and eye layers	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Third</b>	<b>3</b>	<b>Learning and Understanding</b>	Cornea , histology	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	<b>3</b>	<b>Learning and Understanding</b>	Sclera , histology	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	<b>3</b>	<b>Learning and Understanding</b>	Iris , histology and ciliary body	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	<b>3</b>	<b>Learning and Understanding</b>	Anatomy of the chambers of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>	<b>3</b>	<b>Learning and Understanding</b>	Retina , histology	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Eighth</b>	<b>3</b>	<b>Learning and Understanding</b>	Aqueous humor , vitreous body	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	<b>3</b>	<b>Learning and Understanding</b>	Extra ocular muscle	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	<b>3</b>	<b>Learning and Understanding</b>	The ocular appendages	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	<b>3</b>	<b>Learning and Understanding</b>	Lacrimal system	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>3</b>	<b>Learning and Understanding</b>	Conjunctiva	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	Orbit	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	sinuses and its anatomical relation with the eye ball	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project Optical physics

	The Syllabus Course
	The Main References
	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

**Course Description Form**

48. Course Title	
Nursing	
49. Course Symbol	
50. Year/ Trimester	
Fir	
51. Date of description preparation	
2024/3/25	
52. Permitted forms of attendance	
1	
53. Total Number of hours / Total number of units	
3/3	
54. Name of Course Instructor	
Assist.Lect. Ameen Jihad Dirweesh	
55. Aims of the Course	
Students would know how to aid eye injuries and bandage the eye cuts And how to sanitize the thermometer and fixing the thermos criterion	
56. Strategies of Teaching and Learning	
Interactive leaning ensures using group discussion and activities to encourage participation in ideas between students	الاستراتيجية

Week	hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	3	<b>Learning and Understanding</b>	Nursing concept and Its Importance	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	3	<b>Learning and Understanding</b>	Types or dressings	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	3	<b>Learning and Understanding</b>	Sterilization methods and its importance	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	3	<b>Learning and Understanding</b>	General eye disinfectants and sterilizers	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	3	<b>Learning and Understanding</b>	Surgical tools used in dressings	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	3	<b>Learning and Understanding</b>	Cuts, types of cuts and succoring cuts	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>	3	<b>Learning and Understanding</b>	Bleeding and its types	Theoretical+ Practical	Practical and Theoretical Tests and reports



<b>Eighth</b>	<b>3</b>	<b>Learning and Understanding</b>	Eye bleeding	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	<b>3</b>	<b>Learning and Understanding</b>	General rules to succor eye bleeding	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	<b>3</b>	<b>Learning and Understanding</b>	Types of antibiotics and their importance	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	<b>3</b>	<b>Learning and Understanding</b>	Body temperature, thermometer	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>3</b>	<b>Learning and Understanding</b>	Pulse, its importance, locations for measuring it, and its indica	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	Blood pressure (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	Blood pressure (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifteenth	3	Learning and Understanding	Muscular effort and its effects	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project Optical physics

	The Syllabus Course
Basics of General Nursing	The Main References
Principles of Nursing	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet

**Course description form**

57. Course title	
Computer office applications	
58. Course symbol	
59. Year/ Trimester	
First year/ first trimester	
60. Date of description preparation	
2024/3/25	
61. Permitted shapes of attendance	
62. Total number of hours/ total number of units	
3/3	
63. Name of the course instructor	
Prof .Dr. Haidar Hassan Abid	
64. Aims of the course	
	<p>The general goal: To provide students with skills in dealing with basic office applications, creating office files and documents, and using the operating system, as well as the basics of working within the digital environment.</p> <p>The specific goal: to provide the student with knowledge in managing and using various computer applications</p>
65. Learning and Teaching strategies	
الاستراتيجية	<p>Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students</p> <p>Study the practical case of computers and work on applied programs in the calculator.</p>

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	<b>3</b>	<b>Learning and Understanding</b>	Computer Fundamentals	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	<b>3</b>	<b>Learning and Understanding</b>	Computer advantages and areas of use Computers are classified in terms of purpose, size, type and data	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	3	<b>Learning and Understanding</b>	Computer components	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	<b>3</b>	<b>Learning and Understanding</b>	Your personal computer, the concept of computer security and software licenses	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	<b>3</b>	<b>Learning and Understanding</b>	Computer Safety & Software Licenses	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	<b>3</b>	<b>Learning and Understanding</b>	Ethics of the electronic world, forms of abuse, computer security, computer privacy	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>	<b>3</b>	<b>Learning and</b>	Computer Program licenses, property, Electronic piracy ,	Theoretical+	Practical and Theoretical Tests

		<b>Understanding</b>	Evil programs, protection programs.	Practical	and reports
<b>Eighth</b>	<b>3</b>	<b>Learning and Understanding</b>	Operating Systems	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	<b>3</b>	<b>Learning and Understanding</b>	Windows 7	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	<b>3</b>	<b>Learning and Understanding</b>	Desktop Components Start Menu Taskbar	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	<b>3</b>	<b>Learning and Understanding</b>	Files, folders and icons.	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>3</b>	<b>Learning and Understanding</b>	Internet based learning, Classroom learning and Coeducation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	Control Panel and Categories	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	Defragment, delete and setting up programs.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifteenth	3	Learning and Understanding	Fixing time on computer, and date, repairing CDs, Computer arrangements.	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project Optical physics

	The Syllabus Course
Computer principles	The Main References
	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet

**Course Description Form**

66. Course Title	
Democracy and Human Rights	
67. Course Symbol	
68. Year/ Trimester	
First Year/ First Trimester	
69. Date of Preparing the course	
2024/3/25	
70. Permitted attendance	
71. Total number of study hours / Total number of units	
2/2	
72. Name of the Course Instructor	
Dr Rassim Aayid	
73. اهداف المقرر	
	<p>By the end of the study year, students will be able to:</p> <p>General aims: This course aims to achieve progress culturally to individuals and to achieve social welfare and to protect freedom generally, by respecting the main rights of freedom, justice and equality.</p> <p>Specific aims: This course aims at guaranteeing accordance between the present political party (the government ) and people, accordingly, this course endeavors to achieve an agreement between government and people.</p>
74. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	2	<b>Learning and Understanding</b>	Human rights: Definitions and goals	Theoretical	Practical and Theoretical Tests and reports
<b>Second</b>	2	<b>Learning and Understanding</b>	Roots of human rights and their progress throughout history	Theoretical	Practical and Theoretical Tests and reports
Third	2	<b>Learning and Understanding</b>	Human rights in ancient civilizations and Mesopotamia.	Theoretical	Practical and Theoretical Tests and reports
<b>Fourth</b>	2	<b>Learning and Understanding</b>	Human rights in religions and Islam.	Theoretical	Practical and Theoretical Tests and reports
<b>Fifth</b>	2	<b>Learning and Understanding</b>	Human rights in the Middle Ages: human rights in political doctrines, schools, and theories, human rights in companies and their declarations, revolutions, and constitutions (English documents, American Revolution, French Revolution, Russian Revolution)	Theoretical	Practical and Theoretical Tests and reports
<b>Sixth</b>	2	<b>Learning and Understanding</b>	Human rights in Arabian constitutions	Theoretical	Practical and Theoretical Tests and reports
<b>Seventh</b>	2	<b>Learning and Understanding</b>	Regional recognition of human rights: 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	Practical and Theoretical Tests and reports
<b>Eighth</b>	2	<b>Learning and Understanding</b>	Non-governmental organizations and Human right ( red cross)	Theoretical	Practical and Theoretical Tests and reports
<b>Ninth</b>	2	<b>Learning and Understanding</b>	National organization of Human Rights	Theoretical	Practical and Theoretical Tests and reports
<b>Tenth</b>	2	<b>Learning and Understanding</b>	Human rights between theory and practice in Iraqi Constitutions	Theoretical	Practical and Theoretical Tests and reports

<b>Eleventh</b>	2	<b>Learning and Understanding</b>	Relation between human rights and public freedom: International announcement of Human rights.	Theoretical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	2	<b>Learning and Understanding</b>	2. Regional conventions and National constitutions	Theoretical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	2	<b>Learning and Understanding</b>	Individual Human rights and collective human rights	Theoretical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	2	<b>Learning and Understanding</b>	The problem of school bullying, consumer culture, and family relations	Theoretical =	Practical and Theoretical Tests and reports
Fifteenth	2	Learning and Understanding	Modern human rights: facts in development, the right to a clean environment, the right to solidarity, the right to religion	Theoretical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project Optical physics

	The Syllabus Course
Democracy and Human Rights	The Main References
	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet

**Course Description Form**

1. Course title	
English Language	
2. Course symbol	
3. Year / Trimester	
First Year/ First Trimester	
4. Date of Preparing the Course	
2024/3/25	
5. Permitted attendance	
6. Total number of study hours / total number of units	
2/2	
7. Name of Course Instructor	
Assist. Lect. Haidar Sabah Ghloom Ridha	
8. Course Objectives	
<p><b>Objectives 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.</b></p> <p><b>Special Objective / That the student has mastered the tenses, verbs and the use of important terms that are useful to him in his work.</b></p>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of among students	

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	2	<b>Learning and Understanding</b>	Pronouns	Theoretical	Practical and Theoretical Tests and reports
Second	2	<b>Learning and Understanding</b>	Verbs	Theoretical	Practical and Theoretical Tests and reports
Third	2	<b>Learning and Understanding</b>	Modal Verbs.	Theoretical	Practical and Theoretical Tests and reports
Fourth	2	<b>Learning and Understanding</b>	Quiz	Theoretical	Practical and Theoretical Tests and reports
Fifth	2	<b>Learning and Understanding</b>	Using ( a/an/ the )	Theoretical	Practical and Theoretical Tests and reports
Sixth	2	<b>Learning and Understanding</b>	Nouns: singular and plurals	Theoretical	Practical and Theoretical Tests and reports
Seventh	2	<b>Learning and Understanding</b>	Present Simple Tense	Theoretical	Practical and Theoretical Tests and reports

<b>Eighth</b>	2	<b>Learning and Understanding</b>	Past simple tense	Theoretical	Practical and Theoretical Tests and reports
<b>Ninth</b>	2	<b>Learning and Understanding</b>	Present Continuous Tense	Theoretical	Practical and Theoretical Tests and reports
<b>Tenth</b>	2	<b>Learning and Understanding</b>	Past Continuous Tense	Theoretical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	2	<b>Learning and Understanding</b>	Present Perfect Tense	Theoretical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	2	<b>Learning and Understanding</b>	Past Perfect Tense	Theoretical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	2	<b>Learning and Understanding</b>	Future Simple Tense	Theoretical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	2	<b>Learning and Understanding</b>	Quiz	Theoretical =	Practical and Theoretical Tests and reports
Fifteenth	2	Learning and Understanding	General Review	Theoretical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project Optical physics

	The Syllabus Course
English Language	The Main References
	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet



### Course Descriptive Form

10. Course Title	
Treatment Glasses	
11. Course Symbol	
12. Year/ Trimester	
First Year / Second Trimester	
13. تاريخ إعداد هذا الوصف	
2024/3/25	
14. Permitted attendances	
15. Total number of study hours / total number of Units	
6/6	
16. Name of the Course Instructor	
Assist. Prof. Haidar Aziz <a href="mailto:haider.ali.inj@atu.edu.iq">haider.ali.inj@atu.edu.iq</a>	
17. Course Objectives	
<p>The general goal is for the student to have familiarity with the technical basics of cutting and refining lenses and installing them in the frame using available equipment .</p> <p>Special objective: The student will have learned with a high degree of proficiency how to fulfill the prescription, prepare the medical glasses, and check the conformity.</p>	
18. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students	

### Treatment Glasses

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	<b>6</b>	<b>Learning and Understanding</b>	Glasses Arms: Their types and sizes	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	<b>6</b>	<b>Learning and Understanding</b>	The concept of occupational safety and its rules.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	6	<b>Learning and Understanding</b>	The light , nature of the light , light sources , the theories of the light	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	<b>6</b>	<b>Learning and Understanding</b>	The electromagnetic spectrum	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	<b>6</b>	<b>Learning and Understanding</b>	Velocity of the light , Frequency and energy of the visible light	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	<b>6</b>	<b>Learning and</b>	The reflection , the laws of reflection , reflection at	Theoretical+	Practical and Theoretical Tests

		<b>Understanding</b>	plane and spherical surfaces	Practical	and reports
<b>Seventh</b>	<b>6</b>	<b>Learning and Understanding</b>	Propagation and Reflection of Light	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	<b>6</b>	<b>Learning and Understanding</b>	Mirrors , types of mirrors , properties of the image formed by plane mirrors , properties of image formed by plane mirror	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	<b>6</b>	<b>Learning and Understanding</b>	Spherical mirrors , center of curvature , axis , vertices , focal length	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Concave mirror, properties of image formed by concave mirror	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	<b>6</b>	<b>Learning and Understanding</b>	Convex mirror, properties of image formed by convex mirror	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>6</b>	<b>Learning and Understanding</b>	Real and virtual images formed by reflected surfaces	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Refraction , the laws of refraction , refraction by plane surface	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	The refractive index , relative refractive index	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Factors affecting the refractive index	Theoretical+ Practical	Practical and Theoretical Tests and reports

11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

12 Sources of Learning : Book project	
	The Syllabus Course
	The Main References
Treatment Glasses	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet

### Form Course Descriptive

1. Course Title	
General refractive errors	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
8/8	
7. Name of the Course Instructor	
Name: Dr. Mustafa Salem Muhammad Email: <a href="mailto:Mustafa.salim.inj@atu.edu.iq">Mustafa.salim.inj@atu.edu.iq</a>	
8. Course Objectives	
<b>General objective: For the student to be able to identify and diagnose refractive errors in the eye</b> <b>2. Special goal: Training the student on how to examine refractive errors in the eye and write a prescription</b>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students	

### General Refractive errors

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	8	Learning and Understanding	Many new examples of calculating refractive errors by using the retinoscopy	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	8	Learning and Understanding	Optical lenses, definition, types	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	8	Learning and Understanding	lens measurement unit	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	8	Learning and Understanding	The ways of writing lens power	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	8	Learning and Understanding	lens power, poles power, equivalent power	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	8	Learning and Understanding	The ways of measuring lens power, poles power	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	8	Learning and Understanding	applications for errors of refraction in the eye and its diagnosis	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	8	Learning and Understanding	Receiving the patient and fixing the basic information of the patient's complaint	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	8	Learning and Understanding	stage of hypermetropia with age	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	8	Learning and Understanding	Subjective retinoscopy	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eleventh	6	Learning and Understanding	objective refraction, simple retinoscopy	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Twelfth</b>	<b>6</b>	<b>Learning and Understanding</b>	Streak, electrical retinoscopy	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Writing of medical prescription after eye examination	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Examination of the accommodation after correction	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	errors of refraction by glasses	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
<b>Book project Refractive error</b>	Books and Supportive References advised of (Magazines and reports )
	Electronic References and Internet

### Form Course Descriptive

1. Course Title	
<b>Optical physics</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
6/6	
7. Name of the Course Instructor	
Name: Dr. Raneem Muhammad                      Email:	
8. Course Objectives	
<p><b>1. Overarching goal:</b> Students need to understand the principles of light.</p> <p><b>2/Special objective:</b> To be able to apply related laws and understand the phenomena of light reflection and refraction in reflected and refracted media.</p>	
9. Teaching and Learning Strategies	
Group discussions, one-on-one conversations, and interactive activities are all used in interactive learning to promote student engagement and idea sharing.	

### Optical physics

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	6	Learning and Understanding	How does light travel through the eye?	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	6	Learning and Understanding	Total internal reflection , critical angle	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	6	Learning and Understanding	Reflection by plane parallel plate	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	6	Learning and Understanding	Refraction by a prism	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	6	Learning and Understanding	Convention of signs for distance	Theoretical+ Practical	Practical and Theoretical Tests and reports

Sixth	6	Learning and Understanding	Refraction at spherical surfaces	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	6	Learning and Understanding	The lens , first focal point , second focal point , focal length , types of lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	6	Learning and Understanding	Gaussian law , magnification	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	6	Learning and Understanding	Convex lens , properties of image formed by convex lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	6	Learning and Understanding	Concave lens , properties of image formed by concave lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eleventh	6	Learning and Understanding	Compound lens , Newton equation	Theoretical+ Practical	Practical and Theoretical Tests and reports
Twelfth	6	Learning and Understanding	Lens maker's equation , power of lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
Thirteenth	6	Learning and Understanding	Aberrations of lens , chromatic aberrations , monochromatic aberrations	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourteenth	6	Learning and Understanding	Coma aberration , Astigmatism , field curvatures , Distortion aberration	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifteenth	6	Learning and Understanding	The Eye and the Optical Instruments	Theoretical+ Practical	Practical and Theoretical Tests and reports

### 11 Course Evaluation

A student's grade is distributed out of 100 based on the tasks they are assigned, which may include daily preparation, oral, written, monthly, or other exams, reports, etc

### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project Optical physics	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Eye physiology</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف 2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units 3/3	
7. Name of the Course Instructor	
Name: Ali Kazem Hussein                      Email:	
8. Course Objectives	
11/ General objective: The creation of student to understand the scientific subjects related to the basics of analysis and functions of the eye .	
2/ Special objective: Knowledge of anatomical parts of the eye , the vital functions in detail .	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	



## Eye physiology

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	3	<b>Learning and Understanding</b>	Optic nerve	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	3	<b>Learning and Understanding</b>	Function of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Third</b>	3	<b>Learning and Understanding</b>	Function of the cornea and its nerve supply	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	3	<b>Learning and Understanding</b>	Iris and its function and its reflexes	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	3	<b>Learning and Understanding</b>	Lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	3	<b>Learning and Understanding</b>	Accommodation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>		<b>Learning and Understanding</b>	Change of accommodation according to the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	3	<b>Learning and Understanding</b>	Lacrimal system and tear	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	3	<b>Learning and Understanding</b>	Vitreous body	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	3	<b>Learning and Understanding</b>	Function and physiology muscle of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	3	<b>Learning and Understanding</b>	Eye lid	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Twelfth</b>	3	<b>Learning and Understanding</b>	Movement and reflexes of the eye lid	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	3	<b>Learning and Understanding</b>	Aqueous humour	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	3	<b>Learning and Understanding</b>	The light and its effected on the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	3	<b>Learning and Understanding</b>	Visual acuity	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
<b>Book project the Eye physiology</b>	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
Ocular Health	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
3/3	
7. Name of the Course Instructor	
Name: Ameen jihad                      Email:	
8. Course Objectives	
<p>1. Identify first aid and fundamental nursing principles as the main goal.</p> <p>2. List the fundamental ideas of primary healthcare and public health.</p> <p>Special Goal 1: Define the exact nature of eye care and provide initial assistance.</p> <p>2. Acquire knowledge about eye health care, preserving its security, and averting blindness from eye disorders</p>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	

### Ocular Health

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	3	<b>Learning and Understanding</b>	Breathing and suffocation, gas poisoning	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	3	<b>Learning and Understanding</b>	artificial respiration (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Third</b>	3	<b>Learning and Understanding</b>	artificial respiration (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	3	<b>Learning and Understanding</b>	Accidents affecting the eye and how to treat it	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	3	<b>Learning and Understanding</b>	Foreign bodies in the eye and their types	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	3	<b>Learning and Understanding</b>	First aid, its types, and its importance	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>		<b>Learning and Understanding</b>	Burns, their types, how to treat them	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	3	<b>Learning and Understanding</b>	Burns to the eye, how to treat them	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	3	<b>Learning and Understanding</b>	Eye health care	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	3	<b>Learning and Understanding</b>	Explanation of survey forms in ocular health	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	3	<b>Learning and Understanding</b>	Application for a field survey in eye health (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	3	<b>Learning and Understanding</b>	Discussing and evaluating the survey results (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports

		<b>Understanding</b>		Practical	and reports
<b>Thirteenth</b>	3	<b>Learning and Understanding</b>	Application for a field survey in eye health (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	3	<b>Learning and Understanding</b>	Discussing and evaluating the survey results (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	3	<b>Learning and Understanding</b>	Prevention of blindness	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12. Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Ocular Health	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet



<b>Fifth</b>	3	<b>Learning and Understanding</b>	General classification of parasites ( Protozoa , amoebae and flagellates )	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	3	<b>Learning and Understanding</b>	General classification of parasites ( protozoa , ciliates and sporozoa )	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>		<b>Learning and Understanding</b>	General classification of parasites ( helminthes , nematode )	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	3	<b>Learning and Understanding</b>	General classification of parasites ( helminthes , cestoda and trematoda )	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	3	<b>Learning and Understanding</b>	Parasitic infections of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	3	<b>Learning and Understanding</b>	Eye hygiene	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11.Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12.Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project Basic Histology Human Histology Medical Biology Micro Biology	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Computer Applications</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
3/3	
7. Name of the Course Instructor	
Name: Prof. Haider Hassan Abd Email:	
8. Course Objectives	
<ol style="list-style-type: none"> <li>The general goal: At the end of the year, the student will be able to use a computer.</li> <li>Special objective: <ul style="list-style-type: none"> <li>Entering and exiting information by storing the information and using it at any time of need .</li> <li>Organizing files.</li> </ul> </li> </ol>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	

### Computer Applications

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	3	Learning and Understanding	مايكروسوفت وورد ٢٠١٠ تشغيل برنامج مايكروسوفت وورد ٢٠١٠	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	3	Learning and Understanding	واجهة برنامج مايكروسوفت وورد ٢٠١٠	+Theoretical Practical	Practical and Theoretical Tests and reports
Third	3	Learning and Understanding	تبويب ملف ، تبويب الصفحة الرئيسية	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourth	3	Learning and Understanding	تبويب تخطيط الصفحة ، تبويب عرض	+Theoretical Practical	Practical and Theoretical Tests and reports



Fifth	3	Learning and Understanding	ادراج الكائنات في مايكروسوفت وورد ٢٠١٠	+Theoretical Practical	Practical and Theoretical Tests and reports
Sixth	3	Learning and Understanding	Insert Tab مجموعة صفحات pages	+Theoretical Practical	Practical and Theoretical Tests and reports
Seventh		Learning and Understanding	Tables مجموعة الجداول	+Theoretical Practical	Practical and Theoretical Tests and reports
Eighth	3	Learning and Understanding	Tables مجموعة الجداول	+Theoretical Practical	Practical and Theoretical Tests and reports
Ninth	3	Learning and Understanding	مجموعة رسومات توضيحية	+Theoretical Practical	Practical and Theoretical Tests and reports
Tenth	3	Learning and Understanding	Header & Footer مجموعة ارتباطات ، مجموعة رأس وتذييل	+Theoretical Practical	Practical and Theoretical Tests and reports
Eleventh	3	Learning and Understanding	Text مجموعة نص Symbols views مجموعة رموز	+Theoretical Practical	Practical and Theoretical Tests and reports
Twelfth	3	Learning and Understanding	مهام إضافية لمايكروسوفت وورد ٢٠١٠	+Theoretical Practical	Practical and Theoretical Tests and reports
Thirteenth	3	Learning and Understanding	مايكرو سوفت بوربوينت ٢٠١٠ فتح ملف جديد وخزنه على سطح المكتب . - إضافة وتحرير شرائح ( شريحة عنوان عنوان مع محتوى ، عنوان فرعي ، محتويين ، مقارنة ، عنوان فقط ، شريحة فارغة ، محتوى مع تعليق ، صورة مع تعليق )	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourteenth	3	Learning and Understanding	اضافة نسق theme - مجموعة العرض الرئيسية Master view إضافة حركات وضبط الوقت والتكرار لكامل الشرائح وبشكل مختلف لكل شريحة	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifteenth	3	Learning and Understanding	إضافة حركات للشرائح	+Theoretical Practical	Practical and Theoretical Tests and reports

11 Course Evaluation	
.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc	
12 Sources of Learning : Book project	
	The Syllabus Course
	<b>The Main References</b>
<b>Book project</b>	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	اللغة العربية
2. Course Symbol	
3. Year/ Trimester	First Year / Second Trimester
4. تاريخ إعداد هذا الوصف	2024/3/25
5. Permitted attendances	
6. Total number of study hours / total number of Units	3/3
7. Name of the Course Instructor	Name: Walid Abdul Karim Muhammad Email:
8. Course Objectives	
9. Teaching and Learning Strategies	Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students

اللغة العربية

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	2	Learning and Understanding	مقدمة عن الأخطاء اللغوية - التاء المربوطة والطويلة والتاء المفتوحة	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	2	Learning and Understanding	قواعد كتابة الالف الممدودة والمقصورة - الحروف الشمسية والقمرية	+Theoretical Practical	Practical and Theoretical Tests and reports
Third	2	Learning and Understanding	الضاد والطاء	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourth	2	Learning and Understanding	كتابة الهمزة	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifth		Learning and Understanding	علامات الترقيم	+Theoretical Practical	Practical and Theoretical Tests and reports
Sixth	2	Learning and Understanding	الاسم والفعل والتفريق بينهما	+Theoretical Practical	Practical and Theoretical Tests and reports
Seventh	2	Learning and Understanding	المفاعيل	+Theoretical Practical	Practical and Theoretical Tests and reports
Eighth	2	Learning and Understanding	العدد	+Theoretical Practical	Practical and Theoretical Tests and reports
Nineth	2	Learning and Understanding	تطبيقات الأخطاء اللغوية الشائعة	+Theoretical Practical	Practical and Theoretical Tests and reports
Tenth	2	Learning and Understanding	النون والتنوين . معاني حروف الجر	+Theoretical Practical	Practical and Theoretical Tests and reports
Eleventh	2	Learning and Understanding	الجوانب الشكلية للخطاب الإداري	+Theoretical Practical	Practical and Theoretical Tests and reports

Twelfth	2	Learning and Understanding	لغة الخطاب الإداري	+Theoretical Practical	Practical and Theoretical Tests and reports
Thirteenth		Learning and Understanding	نماذج من المراسلات الإدارية	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourteenth	2	Learning and Understanding	مقدمة عن الأخطاء اللغوية – التاء المربوطة والطويلة والتاء المفتوحة	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifteenth	2	Learning and Understanding	قواعد كتابة الالف الممدودة والمقصورة – الحروف الشمسية والقمرية	+Theoretical Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Medical Glasses</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
3/3	
7. Name of the Course Instructor	
Name: Haidar ali azzaz                      Email:	
8. Course Objectives	
<p>1, The main objective is for the student to understand the fundamentals of cutting, fine-tuning, and installing lenses in frames using readily available hardware.</p> <p>2. The student's ability to apply and prepare the recipe with a high degree of proficiency is the specific objective, prescription eyewear and conformity assessment</p>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students	

### Medical glasses

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	<b>6</b>	<b>Learning and Understanding</b>	Medical glasses, their parts, types	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	<b>6</b>	<b>Learning and Understanding</b>	Optical lenses	+Theoretical Practical	Practical and Theoretical Tests and reports
Third	<b>6</b>	<b>Learning and Understanding</b>	Types of lenses, their manufacture	+Theoretical Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	<b>6</b>	<b>Learning and Understanding</b>	Lens measurement unit	+Theoretical Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	<b>6</b>	<b>Learning and Understanding</b>	Extracting lens axes	+Theoretical Practical	Practical and Theoretical Tests and reports

Sixth	6	Learning and Understanding	Equation of lens axes	+Theoretical Practical	Practical and Theoretical Tests and reports
Seventh	6	Learning and Understanding	How to write lens power	+Theoretical Practical	Practical and Theoretical Tests and reports
Eighth	6	Learning and Understanding	Writing a prescription	+Theoretical Practical	Practical and Theoretical Tests and reports
Ninth	6	Learning and Understanding	Types of phosmeter device	+Theoretical Practical	Practical and Theoretical Tests and reports
Tenth	6	Learning and Understanding	Measuring the power of the lens with a phosmeter	+Theoretical Practical	Practical and Theoretical Tests and reports
Eleventh	6	Learning and Understanding	Prescription eyeglass frames, types, and parts	+Theoretical Practical	Practical and Theoretical Tests and reports
Twelfth	6	Learning and Understanding	Materials used in tire manufacturing	+Theoretical Practical	Practical and Theoretical Tests and reports
Thirteenth	6	Learning and Understanding	Natural and synthetic materials used in making eyeglass frames	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourteenth	6	Learning and Understanding	Metal materials used in the manufacture of eyeglass frames (1)	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifteenth	6	Learning and Understanding	Metal materials used in the manufacture of eyeglass frames (2)	+Theoretical Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

12 Sources of Learning : Book project	
	The Syllabus Course
	The Main References
Book project the medical glasses	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Specialized refractive errors</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف 2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units 3/3	
7. Name of the Course Instructor Ahmad shakir shanawa	
8. Course Objectives	
<ul style="list-style-type: none"> <li>▪ The main objective is for the student to understand the fundamentals of refractive errors in the eye and how to use the various devices that are available to treat them.</li> <li>▪ Special goal: The student will be able to write an eyeglass prescription and examine and diagnose visual aberrations in the eye with proficiency.</li> </ul>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students	

### Specialized refractive errors

Week	Hour	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	8	Learning and Understanding	Physiological and pathological changes of visual acuity	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	8	Learning and Understanding	Development of vision in newborns, and ability to blend	+Theoretical Practical	Practical and Theoretical Tests and reports
Third	8	Learning and Understanding	Near point, far point, how to measure them	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourth	8	Learning and Understanding	Adaptation, its definition, and its relationship to visual acuity	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifth	8	Learning and Understanding	Adaptation mechanism, types of adaptation	+Theoretical Practical	Practical and Theoretical Tests and reports
Sixth	8	Learning and Understanding	Adaptation distance, adaptation force, how to calculate them	+Theoretical Practical	Practical and Theoretical Tests and reports
Seventh	8	Learning and Understanding	The relationship between accommodation power and accommodation distance according to the types of refractive errors	+Theoretical Practical	Practical and Theoretical Tests and reports
Eighth	8	Learning and Understanding	Factors that hinder adaptation and lead to altered states of adaptation	+Theoretical Practical	Practical and Theoretical Tests and reports
Ninth	8	Learning and Understanding	Changing states of adaptation, adaptation stress, adaptation paralysis, poor adaptation, weakness of adaptation, laziness of adaptation.	+Theoretical Practical	Practical and Theoretical Tests and reports
Tenth	8	Learning and Understanding	Factors that increase the strength of adaptation	+Theoretical Practical	Practical and Theoretical Tests and reports



Eleventh	6	Learning and Understanding	Adaptation and convergence of the eyes	+Theoretical Practical	Practical and Theoretical Tests and reports
Twelfth	6	Learning and Understanding	The angle of convergence between the eyes, its definition, and its measurement	+Theoretical Practical	Practical and Theoretical Tests and reports
Thirteenth	6	Learning and Understanding	Using prisms to correct the angle of convergence	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourteenth	6	Learning and Understanding	The relationship between convergence adaptation	+Theoretical Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Specialized refractive errors	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Squint</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
3/3	
7. Name of the Course Instructor	
Name: Saif Ibraheem Raheem	Email:
8. 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 used the special instruments that can be measured the degree of squint	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to Encourage active participation and exchange of ideas among students	

### computer applications

Week	hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	8	Learning and Understanding	Squint , definition , types	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	8	Learning and Understanding	Squint , causes , complications	+Theoretical Practical	Practical and Theoretical Tests and reports
Third	8	Learning and Understanding	Squint , diagnosis , treatments	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourth	8	Learning and Understanding	Extra ocular , muscles : anatomy , physiology	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifth	8	Learning and Understanding	Innervations , action , conjugate and conjunctive movements	+Theoretical Practical	Practical and Theoretical Tests and reports
Sixth	8	Learning and Understanding	Binocular vision	+Theoretical Practical	Practical and Theoretical Tests and reports
Seventh	8	Learning and Understanding	Heterophoria , definition , types	+Theoretical Practical	Practical and Theoretical Tests and reports
Eighth	8	Learning and Understanding	Heterophoria , causes , symptoms	+Theoretical Practical	Practical and Theoretical Tests and reports
Nineth	8	Learning and Understanding	Heterophoria , diagnosis , treatment	+Theoretical Practical	Practical and Theoretical Tests and reports

<b>Tenth</b>	8	<b>Learning and Understanding</b>	Heterotropia , definition , causes	+Theoretical Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	8	<b>Learning and Understanding</b>	Heterotropia , diagnosis , side effect	+Theoretical Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	8	<b>Learning and Understanding</b>	Heterotropia , types , treatment	+Theoretical Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	8	<b>Learning and Understanding</b>	Esotropia , definition , types	+Theoretical Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	8	<b>Learning and Understanding</b>	Surgical treatment of squint	+Theoretical Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Advanced strabismus	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Optical medical devices</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
5/5	
7. Name of the Course Instructor	
Prof Faris Muhammad Ali	email
8. Course Objectives	
<p>General goal: Upon completion of the course, the student will be able to use the available optical medical equipment for visual medical examinations and will know how to maintain and operate it.</p> <p>Special goal: The learner will be proficient in the use of optical medical devices for diagnosis, testing, and accurate result-giving.</p>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	

**Optical medical devices**

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	5	<b>Learning and Understanding</b>	Fundoscopy devices, their types and installation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	5	<b>Learning and Understanding</b>	Methods of use in medical examinations of the fundus of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Third</b>	5	<b>Learning and Understanding</b>	Natural variables that can be seen with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	5	<b>Learning and Understanding</b>	Pathological variables that can be seen with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	5	<b>Learning and Understanding</b>	Visual field measuring devices, their types and installation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>	5	<b>Learning and Understanding</b>	Methods of use in medical examinations to measure the field of vision	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>	5	<b>Learning and Understanding</b>	Natural indicators that can be seen when examining the visual field with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	5	<b>Learning and Understanding</b>	Pathological indicators that can be seen when examining the visual field with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	5	<b>Learning and Understanding</b>	Keratotomy devices, their types and installation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>		<b>Learning and Understanding</b>	Methods of use in medical examinations of the cornea	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	5	<b>Learning and Understanding</b>	Normal indicators that can be seen when examining the cornea and the anterior section of the lens border	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	5	<b>Learning and Understanding</b>	Pathological indicators that can be seen when examining the cornea and the anterior sections of the lens border	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Thirteenth</b>	5	<b>Learning and Understanding</b>	Devices for examining and diagnosing cases of glaucoma that affect the eye, their types and installation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>		<b>Learning and Understanding</b>	Methods of use in medical eye examinations	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	5	<b>Learning and Understanding</b>	Natural indicators that can be identified during medical examinations with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Optical medical devices	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Ophthalmology</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
4/4	
7. Name of the Course Instructor	
Lahib Muhammad Abdul Hussein email	
8. 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 referral to specialist eye doctors	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive	

### Ophthalmology

Week	Hour	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	4	<b>Learning and Understanding</b>	Introduction for ophthalmology	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	4	<b>Learning and Understanding</b>	Examination of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	4	<b>Learning and Understanding</b>	Disorders of eye lid	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth		<b>Learning and Understanding</b>	Disorders of the conjunctiva	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	4	<b>Learning and Understanding</b>	Trachoma , definition and causes	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	4	<b>Learning and Understanding</b>	Trachoma grading	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	4	<b>Learning and Understanding</b>	Trachoma prevention and treatment	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth		<b>Learning and Understanding</b>	Disorders of the lacrimal drainage system	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	4	<b>Learning and Understanding</b>	Disease of the cornea	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	4	<b>Learning and Understanding</b>	Disease of sclera	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eleventh	4	<b>Learning and Understanding</b>	Disease of lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
Twelfth	4	<b>Learning and</b>	Affect of diseases of lens on vision	Theoretical+	Practical and Theoretical Tests

		<b>Understanding</b>		Practical	and reports
<b>Thirteenth</b>	4	<b>Learning and Understanding</b>	Glaucoma , definition , types	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	4	<b>Learning and Understanding</b>	Glaucoma , epidemiology , examination	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	4	<b>Learning and Understanding</b>	Glaucoma prevention , treatment	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Ophthalmology	Books and Supportive References advised of ( Magazines & reports )
	Electronic References and Internet

## Form Course Descriptive



1. Course Title	<b>Computer Applications</b>	
2. Course Symbol		
3. Year/ Trimester	Second Year / First Trimester	
4. تاريخ إعداد هذا الوصف	2024/3/25	
5. Permitted attendances		
6. Total number of study hours / total number of Units	3/3	
7. Name of the Course Instructor	Dr . Ali Muhammad hayder email	
8. Course Objectives	<p>The main objective is for the learner to be conversant with a variety of computer programs.</p> <p>Being able to differentiate between the different kinds of software that can be dealt with is the specific objective</p>	
9. Teaching and Learning Strategies	Interactive learning involves the use of group discussions, small discussions, and interactive activities to Encourage active participation and exchange of ideas among students	

### Computer Applications

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	3	Learning and Understanding	<p>مفهوم الشبكات Net works وانواعها , مفهوم الانترنت Internet , تشغيله , وصف الشاشة الرئيسية ومكوناتها , كيفية الاتصال مع الشبكة العالمية (Web) Yahoo , Google الاستفادة من محركات البحث المشهورة مثل التعرف على طرق البحث عن المعلومات والوصول اليها</p>	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	3	Learning and Understanding	<p>برنامج Excel التعرف على مفهوم البرنامج , فوائده , مواصفاته , طرق تشغيله التعرف على الشاشة الرئيسية ومكوناتها واحتوائها على مختلف القوائم والادوات الفعالة مفهوم الخلية , انواع البيانات الاساسية وكيفية ادخالها كيفية حفظ صفحة العمل Work sheet او Work book , اغلاق البرنامج واغلاق الملف فتح الملف المحفوظ , ادخال البيانات واجراء العمليات الحسابية البسيطة التعرف على كيفية ضبط او تنسيق البيانات وهيكلتها ضمن الخلية الواحدة او مجموعة الخلايا التعرف على طرق جمع البيانات او مجموعة الخلايا بصورها المختلفة وكذلك كيفية فرز البيانات استخدام بعض الدوال التي يوفرها البرنامج مثل Ave , Sqrt , Count , Max , Min , Sum وغيرها من الدوال الاحصائية المفيدة ذات العلاقة التعرف الى عملية التنقيح Editing التي يوفرها البرنامج , كيفية نسخ البيانات او نقل البيانات والتعرف على مفهوم نسخ العمليات الحسابية وكذلك مفهوم الخلايا النسبية ( Relative ) والخلايا</p>	+Theoretical Practical	Practical and Theoretical Tests and reports

			<p>التحكم في عرض الخلية , تغير نمطها ونسقها من خلال استخدام ادوات التنسيق</p> <p>التعامل مع المخططات ( Chart ) وكيفية تحويل البيانات الرقمية والنصية الى مخططات بمختلف انواعها من خلال ساحر المخططات ( Chart Wizard ) والتعرف على كيفية اجراء التعديلات والتنقيحات التي يوفرها البرنامج</p> <p>التعرف على كيفية اضافة او حذف الصفوف او الاعمدة في صفحة العمل طباعة البيانات الرقمية او المخططات</p>		
Third	3	<b>Learning and Understanding</b>	<p>البرنامج الاحصائي SPSS , مفهوم البرنامج وتشغيله خطوات تحليل البيانات والتعرف على مكونات الشاشة الرئيسية ادخال البيانات وحفظها واسترجاعها , انواع البيانات وفرزها وتبديلها ادراج متغير ( Variable ) او حالة ( Case ) ودمج الملفات وتحليلها</p> <p>اجراء الاختبارات التعليمية Non-Parametric</p>	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourth	3	<b>Learning and Understanding</b>	<p>مفهوم الشبكات Net works وانواعها , مفهوم الانترنت Internet , تشغيله , وصف الشاشة الرئيسية ومكوناتها , كيفية الاتصال مع الشبكة العالمية (Web) الاستفادة من محركات البحث المشهورة مثل Yahoo , Google التعرف على طرق البحث عن المعلومات والوصول اليها</p>	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifth	3	<b>Learning and Understanding</b>	<p>برنامج Excel التعرف على مفهوم البرنامج , فوائده , مواصفاته , طرق تشغيله</p> <p>التعرف على الشاشة الرئيسية ومكوناتها واحتوائها على مختلف القوائم والادوات الفعالة</p> <p>مفهوم الخلية , انواع البيانات الاساسية وكيفية ادخالها كيفية حفظ صفحة العمل Work sheet او Work book , اغلاق البرنامج واغلاق الملف</p> <p>فتح الملف المحفوظ , ادخال البيانات واجراء العمليات الحسابية البسيطة التعرف على كيفية ضبط او تنسيق البيانات وهيكلتها ضمن الخلية الواحدة او مجموعة الخلايا</p> <p>التعرف على طرق جمع البيانات او مجموعة الخلايا بصورها المختلفة وكذلك كيفية فرز البيانات</p> <p>استخدام بعض الدوال التي يوفرها البرنامج مثل Ave , Sqrt , Count , Max , Min , Sum وغيرها من الدوال الاحصائية المفيدة ذات العلاقة</p> <p>التعرف الى عملية التنقيح Editing التي يوفرها البرنامج , كيفية نسخ البيانات او نقل البيانات والتعرف على مفهوم نسخ العمليات الحسابية وكذلك مفهوم الخلايا النسبية ( Relative ) والخلايا</p> <p>التحكم في عرض الخلية , تغير نمطها ونسقها من خلال استخدام ادوات التنسيق</p> <p>التعامل مع المخططات ( Chart ) وكيفية تحويل البيانات الرقمية والنصية الى مخططات بمختلف انواعها من خلال ساحر المخططات ( Chart Wizard ) والتعرف على كيفية اجراء التعديلات والتنقيحات التي يوفرها البرنامج</p>	+Theoretical Practical	Practical and Theoretical Tests and reports

			التعرف على كيفية اضافة او حذف الصفوف او الاعمدة في صفحة العمل طباعة البيانات الرقمية او المخططات		
Sixth	3	Learning and Understanding	البرنامج الاحصائي SPSS , مفهوم البرنامج وتشغيله خطوات تحليل البيانات والتعرف على مكونات الشاشة الرئيسية ادخال البيانات وحفظها واسترجاعها , انواع البيانات وفرزها وتبديلها ادراج متغير ( Variable ) او حالة ( Case ) ودمج الملفات وتحليلها  اجراء الاختبارات التعليمية Non-Parametric	+Theoretical  Practical	Practical and Theoretical Tests  and reports
Seventh	3	Learning and Understanding	مفهوم الشبكات Net works وانواعها , مفهوم الانترنت Internet , تشغيله . وصف الشاشة الرئيسية ومكوناتها , كيفية الاتصال مع الشبكة العالمية (Web) الاستفادة من محركات البحث المشهورة مثل Yahoo , Google التعرف على طرق البحث عن المعلومات والوصول اليها	+Theoretical  Practical	Practical and Theoretical Tests  and reports
Eighth	3	Learning and Understanding	برنامج Excel التعرف على مفهوم البرنامج , فوائده , مواصفاته , طرق تشغيله التعرف على الشاشة الرئيسية ومكوناتها واحتوائها على مختلف القوائم والادوات الفعالة مفهوم الخلية , انواع البيانات الاساسية وكيفية ادخالها كيفية حفظ صفحة العمل Work sheet او Work book , اغلاق البرنامج واغلاق الملف فتح الملف المحفوظ , ادخال البيانات واجراء العمليات الحسابية البسيطة التعرف على كيفية ضبط او تنسيق البيانات وهيكلتها ضمن الخلية الواحدة او مجموعة الخلايا التعرف على طرق جمع البيانات او مجموعة الخلايا بصورها المختلفة وكذلك كيفية فرز البيانات استخدام بعض الدوال التي يوفرها البرنامج مثل Ave , Sqrt , Count , Max , Min , Sum وغيرها من الدوال الاحصائية المفيدة ذات العلاقة التعرف الى عملية التنقيح Editing التي يوفرها البرنامج , كيفية نسخ البيانات او نقل البيانات والتعرف على مفهوم نسخ العمليات الحسابية وكذلك مفهوم الخلايا النسبية ( Relative ) والخلايا التحكم في عرض الخلية , تغير نمطها ونسقها من خلال استخدام ادوات التنسيق التعامل مع المخططات ( Chart ) وكيفية تحويل البيانات الرقمية والنصية الى مخططات بمختلف انواعها من خلال ساحر المخططات ( Chart Wizard ) والتعرف على كيفية اجراء التعديلات والتنقيحات التي يوفرها البرنامج  التعرف على كيفية اضافة او حذف الصفوف او الاعمدة في صفحة العمل طباعة البيانات الرقمية او المخططات	+Theoretical  Practical	Practical and Theoretical Tests  and reports
Ninth	3	Learning and Understanding	البرنامج الاحصائي SPSS , مفهوم البرنامج وتشغيله خطوات تحليل البيانات والتعرف على مكونات الشاشة الرئيسية	+Theoretical	Practical and Theoretical Tests

		<b>Understanding</b>	ادخال البيانات وحفظها واسترجاعها , انواع البيانات وفرزها وتبديلها ادراج متغير ( Variable ) الحالة ( Case ) ودمج الملفات وتحليلها  اجراء الاختبارات التعلمية Non-Parametric	Practical	and reports
<b>Tenth</b>	3	<b>Learning and Understanding</b>	مفهوم الشبكات Net works وانواعها , مفهوم الانترنت Internet , تشغيله .وصف الشاشة الرئيسية ومكوناتها , كيفية الاتصال مع الشبكة العالمية (Web) الاستفادة من محركات البحث المشهورة مثل Yahoo , Google التعرف على طرق البحث عن المعلومات والوصول اليها	+Theoretical  Practical	Practical and Theoretical Tests  and reports
<b>Eleventh</b>	3	<b>Learning and Understanding</b>	برنامج Excel التعرف على مفهوم البرنامج , فوائده , مواصفاته , طرق تشغيله التعرف على الشاشة الرئيسية ومكوناتها واحتوائها على مختلف القوائم والادوات الفعالة مفهوم الخلية , انواع البيانات الاساسية وكيفية ادخالها كيفية حفظ صفحة العمل Work sheet او Work book , اغلاق البرنامج واغلاق الملف فتح الملف المحفوظ , ادخال البيانات واجراء العمليات الحسابية البسيطة التعرف على كيفية ضبط او تنسيق البيانات وهيكلتها ضمن الخلية الواحدة او مجموعة الخلايا التعرف على طرق جمع البيانات او مجموعة الخلايا بصورها المختلفة وكذلك كيفية فرز البيانات استخدام بعض الدوال التي يوفرها البرنامج مثل Ave , Sqrt Count , Max , Min , Sum وغيرها من الدوال الاحصائية المفيدة ذات العلاقة التعرف الى عملية التنقيح Editing التي يوفرها البرنامج , كيفية نسخ البيانات او نقل البيانات والتعرف على مفهوم نسخ العمليات الحسابية وكذلك مفهوم الخلايا النسبية ( Relative ) والخلايا التحكم في عرض الخلية , تغير نمطها ونسقها من خلال استخدام ادوات التنسيق التعامل مع المخططات ( Chart ) وكيفية تحويل البيانات الرقمية والنصية الى مخططات بمختلف انواعها من خلال سحر المخططات ( Chart Wizard ) والتعرف على كيفية اجراء التعديلات والتنقيحات التي يوفرها البرنامج التعرف على كيفية اضافة او حذف الصفوف او الاعمدة في صفحة العمل طباعة البيانات الرقمية او المخططات	+Theoretical  Practical	Practical and Theoretical Tests  and reports
<b>Twelfth</b>		<b>Learning and Understanding</b>	البرنامج الاحصائي SPSS , مفهوم البرنامج وتشغيله خطوات تحليل البيانات والتعرف على مكونات الشاشة الرئيسية ادخال البيانات وحفظها واسترجاعها , انواع البيانات وفرزها وتبديلها ادراج متغير ( Variable ) الحالة ( Case ) ودمج الملفات وتحليلها  اجراء الاختبارات التعلمية Non-Parametric	+Theoretical  Practical	Practical and Theoretical Tests  and reports

Thirteenth	3	Learning and Understanding	<p>مفهوم الشبكات Net works وانواعها , مفهوم الانترنت Internet , تشغيله , وصف الشاشة الرئيسية ومكوناتها , كيفية الاتصال مع الشبكة العالمية (Web) Yahoo , Google , الاستفادة من محركات البحث المشهورة مثل التعرف على طرق البحث عن المعلومات والوصول اليها</p>	+Theoretical Practical	Practical and Theoretical Tests and reports
Fourteenth	3	Learning and Understanding	<p>برنامج Excel التعرف على مفهوم البرنامج , فوائده , مواصفاته , طرق تشغيله التعرف على الشاشة الرئيسية ومكوناتها واحتمائها على مختلف القوائم والادوات الفعالة مفهوم الخلية , انواع البيانات الاساسية وكيفية ادخالها كيفية حفظ صفحة العمل Work sheet او Work book , اغلاق البرنامج واغلاق الملف فتح الملف المحفوظ , ادخال البيانات واجراء العمليات الحسابية البسيطة التعرف على كيفية ضبط او تنسيق البيانات وهيكلتها ضمن الخلية الواحدة او مجموعة الخلايا التعرف على طرق جمع البيانات او مجموعة الخلايا بصورها المختلفة وكذلك كيفية فرز البيانات استخدام بعض الدوال التي يوفرها البرنامج مثل Ave , Sqrt , Count , Max , Min , Sum وغيرها من الدوال الاحصائية المفيدة ذات العلاقة التعرف الى عملية التنقيح Editing التي يوفرها البرنامج , كيفية نسخ البيانات او نقل البيانات والتعرف على مفهوم نسخ العمليات الحسابية وكذلك مفهوم الخلايا النسبية ( Relative ) والخلايا التحكم في عرض الخلية , تغير نمطها ونسقها من خلال استخدام ادوات التنسيق التعامل مع المخططات ( Chart ) وكيفية تحويل البيانات الرقمية والنصية الى مخططات بمختلف انواعها من خلال ساحر المخططات ( Chart Wizard ) والتعرف على كيفية اجراء التعديلات والتنقيحات التي يوفرها البرنامج التعرف على كيفية اضافة او حذف الصفوف او الاعمدة في صفحة العمل طباعة البيانات الرقمية او المخططات</p>	+Theoretical Practical	Practical and Theoretical Tests and reports
Fifteenth	3	Learning and Understanding	<p>البرنامج الاحصائي SPSS , مفهوم البرنامج وتشغيله خطوات تحليل البيانات والتعرف على مكونات الشاشة الرئيسية ادخال البيانات وحفظها واسترجاعها , انواع البيانات وفرزها وتبديلها ادراج متغير ( Variable ) الحالة ( Case ) ودمج الملفات وتحليلها اجراء الاختبارات التعليمية Non-Parametric</p>	+Theoretical Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Computer Applications	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

### Form Course Descriptive

1. Course Title	
the English language	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
2/2	
7. Name of the Course Instructor	
Hayder Sabah Ghloom	
8. Course Objectives	
Objectives of the course: The student should be familiar with the general rules of the English language and how to use them easily deal with what is related to being an Optometrist	
Special Objective / That the student has mastered the terminology and the use of important terms that are useful to him in	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	

### English Language

Week	Hour	Outputs of the	Name of the unit or subject	Learning	Evaluation method
------	------	----------------	-----------------------------	----------	-------------------

		Wanted learning		method	
<b>First</b>	2	<b>Learning and Understanding</b>	Sentence, Phrase and Clause	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>		<b>Learning and Understanding</b>	The difference between Sentence, Phrase and Clause	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Third</b>	2	<b>Learning and Understanding</b>	Quiz	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	2	<b>Learning and Understanding</b>	Kinds of Sentences, The Statement	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	2	<b>Learning and Understanding</b>	The Compound Sentence	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>		<b>Learning and Understanding</b>	The Complex Sentence	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>	2	<b>Learning and Understanding</b>	Quiz	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	2	<b>Learning and Understanding</b>	How to change from Clause Into Phrase	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	2	<b>Learning and Understanding</b>	Kinds of Relative Clauses	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	2	<b>Learning and Understanding</b>	Quiz	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	2	<b>Learning and Understanding</b>	Composition	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	2	<b>Learning and Understanding</b>	Dialogue	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	2	<b>Learning and Understanding</b>	How to deal with an examination paper □	Theoretical+ Practical	Practical and Theoretical Tests

		<b>Understanding</b>		Practical	and reports
<b>Fourteenth</b>	2	<b>Learning and Understanding</b>	Quiz	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	2	<b>Learning and Understanding</b>	General Review	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
English Language for optometry	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	<b>research project</b>
2. Course Symbol	
3. Year/ Trimester	First Year / Second Trimester
4. تاريخ إعداد هذا الوصف	2024/3/25
5. Permitted attendances	
6. Total number of study hours / total number of Units	2/2
7. Name of the Course Instructor	

## Form Course Descriptive



1. Course Title
<b>Baath Party crimes</b>
2. Course Symbol
3. Year/ Trimester
First Year / Second Trimester
4. تاريخ إعداد هذا الوصف
2024/3/25
5. Permitted attendances
6. Total number of study hours / total number of Units
2/2
7. Name of the Course Instructor
<b>Samah Hamza</b>
8. Course Objectives
9. Teaching and Learning Strategies
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students

### Baath Party crimes

Week	Hour	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	2	<b>Learning and Understanding</b>	Violations of rights and freedoms	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>		<b>Learning and Understanding</b>	A descriptive overview of the political systems in Iraq	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Third</b>	2	<b>Learning and Understanding</b>	(1921-2003)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	2	<b>Learning and Understanding</b>	The Baathist regime's violations of public rights and freedoms	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	2	<b>Learning and Understanding</b>	The impact of the Baathist regime's behavior on society and its control over the state	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Sixth</b>		<b>Learning and Understanding</b>	The impact of the transitional phase in the fight	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>	2	<b>Learning and Understanding</b>	authoritarian politics	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	2	<b>Learning and Understanding</b>	Psychological field	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Ninth</b>	2	<b>Learning and Understanding</b>	Social field	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	2	<b>Learning and Understanding</b>	Religion and state	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	2	<b>Learning and Understanding</b>	Culture, media, and the militarization of society	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	2	<b>Learning and Understanding</b>	The impact of oppression and wars on the environment and population	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	2	<b>Learning and Understanding</b>	The use of internationally prohibited weapons and environmental pollution	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	2	<b>Learning and Understanding</b>	scorched earth policy	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	2	<b>Learning and Understanding</b>	Drying of marshes and forced migration	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Baath Party crimes	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Advanced Medical glasses</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
2/2	
7. Name of the Course Instructor	
Imtinan Muhammad Jawad	
8. Course Objectives	
<p>The overall objective is for the learner to have grasped the fundamentals of cutting, trimming, and lens installation.</p> <p>The framework utilizing gadgets that are available.</p> <p>The student's ability to apply the recipe with a high level of proficiency is the specific objective. preparing medical eyewear and verifying compliance.</p>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students	

### The advanced Medical Glasses

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
<b>First</b>	<b>6</b>	<b>Learning and Understanding</b>	The benefits of dual-focal-length lenses	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Second</b>	<b>6</b>	<b>Learning and Understanding</b>	The dimensions and form of the near end in a lens with two focal lengths	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Third</b>	<b>6</b>	<b>Learning and Understanding</b>	Examples of the calculation of the relative's portion (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourth</b>	<b>6</b>	<b>Learning and Understanding</b>	Examples of how to figure out the amount that goes to the relative (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifth</b>	<b>6</b>	<b>Learning and</b>	Calculation examples for the mutation	Theoretical+	Practical and Theoretical Tests

		<b>Understanding</b>	caused by using two-focal-length lenses	Practical	and reports
<b>Sixth</b>	<b>6</b>	<b>Learning and Understanding</b>	Lenses for contact (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Seventh</b>	<b>6</b>	<b>Learning and Understanding</b>	Contact lenses (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	<b>6</b>	<b>Learning and Understanding</b>	varieties of contact lenses	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	<b>6</b>	<b>Learning and Understanding</b>	How to insert contacts into the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	<b>6</b>	<b>Learning and Understanding</b>	The location of the eye's contact lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	<b>6</b>	<b>Learning and Understanding</b>	harm brought on by contact lens abuse	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>6</b>	<b>Learning and Understanding</b>	Methods for computing contact lens	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	Talk about contact lens reports.	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	examining reports regarding prescription lenses	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	<b>6</b>	<b>Learning and Understanding</b>	talking about articles about prescription eyeglass frames	Theoretical+ Practical	Practical and Theoretical Tests and reports

11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

12 Sources of Learning : Book project

The Syllabus Course

	The Main References
Book project The Advanced Medical Glasses	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Principles of refractive errors</b>	
2. Course Symbol	
3. Year/ Trimester	
second Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
8/8	
7. Name of the Course Instructor	
Ahmad shakir shnawa	
8. Course Objectives	
<p>The main objective is for the student to understand the general guidelines for treating refractive errors in the eyes and how to use the various devices.</p> <p>The student's proficiency in identifying and treating visual aberrations in the eye and in writing an eyeglass prescription is the specific objective.</p>	
9. Teaching and Learning Strategies	
<p>Group discussions, one-on-one conversations, and interactive exercises are all part of interactive learning. Students who actively share ideas with one another</p> <p>An actual case study that looks at how glasses work and a group of individuals with refractive errors on devices In order to address refractive error cases</p>	

### Principles of refractive errors

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	8	Learning and Understanding	Review of a visually impaired case	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	8	Learning and Understanding	Diagnosis of visual impairment	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	8	Learning and Understanding	The embarrassment of organized sight	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	8	Learning and Understanding	Compound eyesight embarrassment (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	8	Learning and Understanding	Compound eyesight embarrassment (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	8	Learning and Understanding	Mixed visual acuity (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	8	Learning and Understanding	Mixed visual acuity (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	8	Learning and Understanding	Use crossed lenses	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	8	Learning and Understanding	Cross cylinder	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	8	Learning and Understanding	Unequal refraction in the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eleventh	8	Learning and Understanding	Anisometrea	Theoretical+ Practical	Practical and Theoretical Tests and reports
Twelfth	8	Learning and Understanding	contact lenses	Theoretical+ Practical	Practical and Theoretical Tests and reports

Thirteenth	8	Learning and Understanding	Contact lenses, their types	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourteenth	8	Learning and Understanding	Correcting refractive errors in the eye with opacification procedure	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifteenth	8	Learning and Understanding	Applications (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports

11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Principles of refractive errors	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	<b>Advanced Squint</b>
2. Course Symbol	
3. Year/ Trimester	First Year / Second Trimester
4. تاريخ إعداد هذا الوصف	2024/3/25
5. Permitted attendances	
6. Total number of study hours / total number of Units	8/8
7. Name of the Course Instructor	Saif Ibraheem Raheem
8. 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 used the special instruments that can be measured the degree of squint .	
--	--

**9. Teaching and Learning Strategies**

Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	
--	--

**Advanced Squint**

Week	hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	8	Learning and Understanding	Difference between alternating and unilateral esotropia	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	8	Learning and Understanding	Treatment of	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	8	Learning and Understanding	non accommodative esotropia and accommodative esotropia	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	8	Learning and Understanding	Hypertropia ,	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	8	Learning and Understanding	definition , characters	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	8	Learning and Understanding	Hypertropia , diagnosis	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	8	Learning and Understanding	Hypertropia , treatment	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	8	Learning and Understanding	Exotropia , definition , causes	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	8	Learning and Understanding	Exotropia , types , diagnosis	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	8	Learning and Understanding	Exotropia , characters ,	Theoretical+ Practical	Practical and Theoretical Tests and reports



		<b>Understanding</b>		Practical	and reports
<b>Eleventh</b>	<b>8</b>	<b>Learning and Understanding</b>	treatment	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>8</b>	<b>Learning and Understanding</b>	Amblyopia , definition , causes	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>8</b>	<b>Learning and Understanding</b>	Amblyopia , diagnosis ,	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>8</b>	<b>Learning and Understanding</b>	treatment	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	<b>8</b>	<b>Learning and Understanding</b>	Nystamus , causes ,	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the advanced Squint	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
Optical equipment	
2. Optical equipment	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
4/4	
7. Name of the Course Instructor	
Faris Muhammad Ali	
8. Course Objectives	
<p>General objective: The student will have learned to operate, maintain and maintain the available optical medical equipment and how to use it in visual medical examinations.</p> <p>Special goal: The student will have mastered the use of optical medical devices in examination, diagnosis, and giving correct results</p>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	

### Optical equipment

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	4	<b>Learning and Understanding</b>	Disease markers that these devices can detect during medical examinations	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	4	<b>Learning and Understanding</b>	Exam equipment for astigmatism: types and installations	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	4	<b>Learning and Understanding</b>	Methods of use in medical examinations	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	4	<b>Learning and Understanding</b>	Natural indicators that can be identified during examinations with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	4	<b>Learning and Understanding</b>	Pathological indicators that can be identified during examinations these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	4	<b>Learning and Understanding</b>	Java Keratometer device, its installation and specifications	Theoretical+ Practical	Practical and Theoretical Tests and reports

		<b>Understanding</b>		Practical	and reports
<b>Seventh</b>	4	<b>Learning and Understanding</b>	How to use it in corneal examination	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eighth</b>	4	<b>Learning and Understanding</b>	Devices for examining vision in both eyes and diagnosing strabismus, strabismus, their types, and their installation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Ninth</b>	4	<b>Learning and Understanding</b>	Methods of use in examinations	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Tenth</b>	4	<b>Learning and Understanding</b>	Natural indicators that can be identified during examination with devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	4	<b>Learning and Understanding</b>	Pathological indicators that can be identified during examination with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	4	<b>Learning and Understanding</b>	Devices for examining and diagnosing defects in the eye, their types and installation	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	4	<b>Learning and Understanding</b>	Methods for use in examination	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	4	<b>Learning and Understanding</b>	Natural indicators that can be identified during examination with devices	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	4	<b>Learning and Understanding</b>	Pathological indicators that can be identified during examination with these devices	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project

	<b>The Syllabus Course</b>
	<b>The Main References</b>
<b>Book project the Optical equipment</b>	<b>Books and Supportive References advised of ( Magazines and reports )</b>
	<b>Electronic References and Internet</b>

## Form Course Descriptive

1. Course Title	
<b>Ophthalmology</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
8/8	
7. Name of the Course Instructor	
Lahib Muhammad Abdul Hussein	
8. 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 referral to specialist eye doctors	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students	

### Ophthalmology

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning meth	Evaluation method
First	4	Learning and Understanding	Optic nerve , its disorders	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	4	Learning and Understanding	Retina detachment	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	4	Learning and Understanding	Eye injury	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	4	Learning and Understanding	Trauma , causes , prevention	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	4	Learning and Understanding	Foreign bodies of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports

Sixth	4	Learning and Understanding	Burns of the eye	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	4	Learning and Understanding	Systemic disease affect the eye (1)	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	4	Learning and Understanding	Systemic disease affect the eye (2)	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	4	Learning and Understanding	Drugs used in ophthalmology	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	4	Learning and Understanding	Types of drugs used in ophthalmology	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eleventh	4	Learning and Understanding	Action and side effects of the drugs	Theoretical+ Practical	Practical and Theoretical Tests and reports
Twelfth	4	Learning and Understanding	Blindness , epidemiology	Theoretical+ Practical	Practical and Theoretical Tests and reports
Thirteenth	4	Learning and Understanding	Blindness causes	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourteenth	4	Learning and Understanding	Malingered and hysterical blindness	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifteenth	4	Learning and Understanding	Review and examination	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written ex reports, etc.

#### 12 Sources of Learning : Book project

The Syllabus Course

	The Main References
Book project the Ophthalmology	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Professional ethics</b>	
2. Course Symbol	
3. Year/ Trimester	
First Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
2/2	
7. Name of the Course Instructor	
Walid Abdul Karim Muhammad	
8. Course Objectives	
<p>Overarching: - Determining the fundamental moral standards of conduct expected of professionals in the medical fields.</p> <p>Exceptional: - Attesting to the graduate's professional conduct in handling his line of work and attaining harmony with both his work setting and himself (the patient, his associates, healthcare providers, and medical equipment).</p>	
9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage a participation and exchange of ideas among students	

### Professional ethics

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	2	Learning and Understanding	Principles of professional ethics in the stage of cultural developments.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	2	Learning and Understanding	□ Principles of professional ethics in Arab Islamic civilization.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	2	Learning and Understanding	- Etiquette for dealing with patients in hospitals from ancient times until now.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	2	Learning and Understanding	Professional behavior: its definition - its concepts - its practical applications - the relationship between employees and their superiors.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	2	Learning and Understanding	Basic etiquette of the profession	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	2	Learning and Understanding	- Characteristics of professional ethics as a general guide to behavior.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	2	Learning and Understanding	- How to employ professional ethics from the position of guiding the individual's behavior, emotions, and ability to make the appropriate decision.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	2	Learning and Understanding	- Characteristics and attributes of workers in the health field... appearance, behavior, commitment.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	2	Learning and Understanding	- The moral and legal rights of the patient.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	2	Learning and Understanding	- Dealing according to the behavior of the patient and his companions.	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eleventh	2	Learning and Understanding	Behavioral/humanistic-interactive-collective patterns.	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Twelfth</b>	2	<b>Learning and Understanding</b>	Its definition, nature, motives, explanations, factors affecting it.	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	2	<b>Learning and Understanding</b>	Communication styles/linguistic and non-linguistic	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	2	<b>Learning and Understanding</b>	- Definition, types, effects, and designing successful communication methods.	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	2	<b>Learning and Understanding</b>	- How do communication methods affect behavior, listening and listening, and how to practice them mentioning applied examples.	Theoretical+ Practical	Practical and Theoretical Tests and reports

11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

12 Sources of Learning : Book project

	<b>The Syllabus Course</b>
	<b>The Main References</b>
Book project the Professional ethics	<b>Books and Supportive References advised of ( Magazines and reports )</b>
	<b>Electronic References and Internet</b>

## Form Course Descriptive

1. Course Title
<b>Arabic language</b>
2. Course Symbol
3. Year/ Trimester
First Year / Second Trimester
4. تاريخ إعداد هذا الوصف
2024/3/25
5. Permitted attendances
6. Total number of study hours / total number of Units
2/2
7. Name of the Course Instructor
Walid Abdul Karim Muhammad
8. Course Objectives



9. Teaching and Learning Strategies	
Interactive learning involves the use of group discussions, small discussions, and interactive activities to encourage active participation and exchange of ideas among students	

## Arabic language

Week	Hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	2	Learning and Understanding	مقدمة عن الأخطاء اللغوية -التاء المربوطة والطويلة والتاء المفتوحة	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	2	Learning and Understanding	قواعد كتابة الالف الممدودة والمقصورة - الحروف الشمسية والقمرية	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	2	Learning and Understanding	الضاد والطاء	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	2	Learning and Understanding	كتابة الهمزة	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	2	Learning and Understanding	علامات الترقيم	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	2	Learning and Understanding	الاسم والفعل والتفريق بينهما	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	2	Learning and Understanding	المفاعيل	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	2	Learning and Understanding	العدد	Theoretical+ Practical	Practical and Theoretical Tests and reports
Ninth	2	Learning and Understanding	تطبيقات الأخطاء اللغوية الشائعة	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Tenth</b>	2	<b>Learning and Understanding</b>	النون والتنوين . معاني حروف الجر	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Eleventh</b>	2	<b>Learning and Understanding</b>	الجوانب الشكلية للخطاب الإداري	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	2	<b>Learning and Understanding</b>	لغة الخطاب الإداري	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	2	<b>Learning and Understanding</b>	نماذج من المراسلات الإدارية	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	2	<b>Learning and Understanding</b>	مقدمة عن الأخطاء اللغوية -الناء المربوطة والطويلة والناء المفتوحة	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	2	<b>Learning and Understanding</b>	قواعد كتابة الالف الممدودة والمقصورة - الحروف الشمسية والقمرية	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

.Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the Optical medical devices	Books and Supportive References advised of ( Magazines and reports )
	Electronic References and Internet

## Form Course Descriptive

1. Course Title	
<b>Computer application</b>	
2. Course Symbol	
3. Year/ Trimester	
Second Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
3/3	
7. Name of the Course Instructor	
Ali Muhammad Hayder	
8. Course Objectives	
<p>The main objective is for the learner to be conversant with a variety of calculator programs.</p> <p>Being able to differentiate between the kinds of software that can be dealt with specifically is the aim.</p>	
9. Teaching and Learning Strategies	
<p>Activities, small talks, and group discussions are all part of interactive learning.</p> <p>Interactive to promote students' active engagement and idea sharing</p> <p>Examine the real-world applications of computers and practice using the computer's applied programs.</p>	

## Computer application

Week	hours	Outputs of the Wanted learning	Name of the unit or subject	Learning method	Evaluation method
First	3	Learning and Understanding	Windows (Works (النسخة القديمة التي تعمل تحت بيئة Dos او )	Theoretical+ Practical	Practical and Theoretical Tests and reports
Second	3	Learning and Understanding	مفهوم البرنامج , طريقة تشغيله , الخروج منه , التعرف على الشاشة الرئيسية والاستفادة من الخيارات التي توفرها والتي تمثل اجهزة جسم الانسان المختلفة للاقسام العامة والخاصة مثل :	Theoretical+ Practical	Practical and Theoretical Tests and reports
Third	3	Learning and Understanding	الجهاز العلمي - Lymphatic - Muscle - Digestive - Skeletal - Nervous - System Endocrine وغيرها	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fourth	3	Learning and Understanding	التعرف من خلال النظام ايضا على معلومات حول الصحة العامة , الاسم الاولية , المواد المخدرة ( Drugs ) وانواعها وطرق الوقاية منها , الجرود تصيب الرياضيين , نقص المناعة المكتسبة ( Aids )	Theoretical+ Practical	Practical and Theoretical Tests and reports
Fifth	3	Learning and Understanding	التعامل مع الفأرة من خلال البرنامج وكيفية الوصول الى الصور التوضيحية الخاص بكل تأثير على جسم الانسان	Theoretical+ Practical	Practical and Theoretical Tests and reports
Sixth	3	Learning and Understanding	التعامل مع طبع الصور او تحويلها الى صيغة ( PCX ) ذات الضغط العالي من حيث الحجم	Theoretical+ Practical	Practical and Theoretical Tests and reports
Seventh	3	Learning and Understanding	التعرف على المواضيع ذات العلاقة ( See also ) والمساعدة او البحث يوفرها البرنامج	Theoretical+ Practical	Practical and Theoretical Tests and reports
Eighth	3	Learning and Understanding	الاستفادة من برنامج الحركة ( Animation ) التي يوفرها	Theoretical+ Practical	Practical and Theoretical Tests and reports
Nineth	3	Learning and Understanding	البرنامج	Theoretical+ Practical	Practical and Theoretical Tests and reports
Tenth	3	Learning and Understanding	Windows (Works (النسخة القديمة التي تعمل تحت بيئة Dos او )	Theoretical+ Practical	Practical and Theoretical Tests and reports

<b>Eleventh</b>	<b>3</b>	<b>Learning and Understanding</b>	مفهوم البرنامج , طريقة تشغيله , الخروج منه , التعرف على الشاشة والاستفادة من الخيارات التي توفرها والتي تمثل اجهزة جسم الانسان المختلفة لل العامة والخاصة مثل :	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Twelfth</b>	<b>3</b>	<b>Learning and Understanding</b>	الجهاز العلمي – lymphatic – Muscle – Digestive – Skeletal – Nervous – System Endocrine وغيرها	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Thirteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	التعرف من خلال النظام ايضا على معلومات حول الصحة العامة , الالام الاولى , المواد المخدرة ( Drugs ) وانواعها وطرق الوقاية منها , الجروح تصيب الرياضيين , نقص المناعة المكتسبة ( Aids )	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fourteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	التعامل مع الفأرة من خلال البرنامج وكيفية الوصول الى الصور التوضيحية الخاص بكل تأثير على جسم الانسان	Theoretical+ Practical	Practical and Theoretical Tests and reports
<b>Fifteenth</b>	<b>3</b>	<b>Learning and Understanding</b>	التعامل مع طبع الصور او تحويلها الى صيغة ( PCX ) ذات الضغط العالي من حيث الحجم	Theoretical+ Practical	Practical and Theoretical Tests and reports

#### 11 Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

#### 12 Sources of Learning : Book project

	The Syllabus Course
	The Main References
Book project the computers applications	Books and Supportive References advised of ( Magazines and reports
	Electronic References and Internet

1. Course Title	
<b>Research project</b>	
2. Course Symbol	
3. Year/ Trimester	
Second Year / Second Trimester	
4. تاريخ إعداد هذا الوصف	
2024/3/25	
5. Permitted attendances	
6. Total number of study hours / total number of Units	
2/2	
7. Name of the Course Instructor	
8. Course Objectives	
9. Teaching and Learning Strategies	