

1. Course Name:	
Anatomy of the Eye	
2. Course Code:	
MTOP1201	
3. Semester / Year:	
Second semester – first year 2024–2025	
4. Description Preparation Date:	
27-02-2025	
5. Available Attendance Forms:	
100% class attendance	
6. Number of Credit Hours (Total) / Number of Units (Total):	
60 hours per semester – 4 credits	
7. Course administrator's name (mention all, if more than one name)	
Name: associated professor Bassel Adel Ismail Email: bassel.adel@alayen.edu.iq	
8. Course Objectives	
Course Objectives	Provide students with abundant information on human eye anatomy in all its components. • Student empowerment: a. Understanding and analysis of eye parts, layers and sections b. Linking medical and health information for ophthalmology subjects and courses with the eye and enabling student to obtain scientific linguistic content facilitates understanding of the materials subsequent stages.
9. Teaching and Learning Strategies	
Strategy	The teaching of the subject is based on an interactive lecture between the professor and students and dialogue and discussion, allowing students to learn through deep exploration of the tissues of the eye and its roles
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Syllabus of The Theoretical Course					
1	2	A1	Lacrimal apparatus and nerve supply lacrimal gland	Interactive Class Lecture	Conducting exams in lecture, periodic questions and homework
2	2	A1	Layers of cornea	Interactive Class Lecture	Conducting exams in lecture, periodic questions and homework
3	2	A1	Layers of retina	Interactive Class Lecture	Conducting exams in lecture, periodic questions and homework
4	2	A1	Structure of the lens	Interactive Class Lecture	Conducting exams in lecture, periodic questions and homework
5	2	A1	Nerves of the eye	Interactive Class Lecture	Conducting exams in lecture, periodic questions and homework
6+7+8	6	A1	Define the muscles Extra ocular muscles Nerves of extraocular muscles	Interactive Class Lecture	Conducting exams in lecture, periodic questions and homework
9	2	A1	Blood supply of the eye	Interactive Class Lecture	Conducting exams in lecture,

					periodic questions and homework
10+11	4	A1	Layers of the eye	Interactive Class Lectures	Conducting exams in lecture, periodic questions and homework
12+13+14	4	A1	Contents of the eye	Interactive Class Lectures	Conducting exams in lecture, periodic questions and homework
15	6	A1	Revision	Interactive Class Lectures	Conducting exams in lecture, periodic questions and homework

11. Course Evaluation

The student grades are distributed from 100 points to the full course and the student examines two university examinations.

The midterm exam is for 40 points and divided according to the following:

5 points of class participation and attendance

15 points Written Practical Examination

20 points Written Theoretical Examination

The Final is for 60 points and divided according to the following:

25 points for practical exam

35 points for theoretical exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Grant's Atlas of Anatomy, 12th Edition Agur, Anne M.R.; Dalley, Arthur F
Recommended books and references (scientific journals, reports...)	Elsevier, Sciencedirect, Springer, LinkedIn, Pdfdrive
Electronic References, Websites	https://www.aao.org/ American Academy of Ophthalmology

Course Description Form

1. Course: Computer Applications					
Biology2					
2. Course Code:					
MTOP1204					
3. Semester / Year					
First Semester / First Stage					
4. Date of preparation of this description					
25/1/2025					
5. Available attendance forms					
Daily live attendance in the halls and laboratory					
6. Number of Credit Hours (Total) / Number of Units (Total)					
3 Credit Hours / 2 Units					
7. Course administrator's name (if more than one name)					
Name: Prof. Asmahan Munir Zinab Email: asmahanzinab @gmail.com					
8. Course Objectives					
The course aims to provide students with:			Objectives: 1. General goal: identify living cells. 2. Specific objective: identify the type of cells and issues as well as the histological structure of the eye.		
9. Teaching and Learning Strategies					
1-interactive lecture 2-Dialogue and discussion 3-Laboratory experiment 4-Brainstorming 5-E-learning					Strategy
10. Course Structure					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1Theoretical+2 Practical	(A1) Define Replication of DNA	Replication of DNA	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
2	1Theoretical+2 Practical	(A1) Define and classify Transcription, protein synthesis and type of mutation	Transcription, protein synthesis and type of mutation	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
3	1Theoretical+2 Practical	(A1) Define and Classify Division Cell (Mitosis and meiosis).	Division Cell (Mitosis and meiosis).	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
4	1Theoretical+2 Practical	(A1) Define Mitosis.	Mitosis.	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
5	1Theoretical+2 Practical	(A1) Define Gametogenesis.	Gametogenesis.	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
6	1Theoretical+2 Practical	(A1) Define spermatogenesis and oogenesis	Spermatogenesis and oogenesis	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
7	1Theoretical+2 Practical	(A1) Define bacteria (Shape, arrangement, size, gram stain).	Introduction of bacteria (Shape, arrangement, size, gram stain).	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests

8	1Theoretical+2 Practical	(A1) Define and classify Bacterial staining techniques, Gram stain.	Bacterial staining techniques, Gram stain.	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
9	1Theoretical+2 Practical	(A1) Media and nutritional requirement	Media and nutritional requirement	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
10	1Theoretical+2 Practical	(A1) Define and classify Viruses	Introduction of Viruses	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
11	1Theoretical+2 Practical	(A1) Define and classify Parasite	Introduction of Parasite	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
12	1Theoretical+2 Practical	(A1) Define Mycology.	Introduction of Mycology.	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
13	1Theoretical+2 Practical	(A1) Define Sterilization and disinfecting	Sterilization and disinfecting	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
14	1Theoretical+2 Practical	(A1) Define the Control of microbial growth. Host defense components of human tears and their functions	Control of microbial growth. Host defense components of human tears and their functions	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests

15	1Theoretical+2 Practical	(A1) Define and classify Eye infections, Bacterial eye infection, Fungal eye infection. Parasitic eye infection, Viral eye infection.	Eye infections, Bacterial eye infection, Fungal eye infection. Parasitic eye infection, Viral eye infection.	Interactive Lecture+ Laboratory Experiments	Weekly, semester and final theoretical tests
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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

1. Final Exam 60 Marks
2. Monthly Exam 30 Marks
3. Interaction 5 Marks
4. Quizes 5 Marks

**Recommended books and
references (scientific journals,
,reports**

1. Elizabeth o Grady, Jason Cashmore, Marsha, Carol Wismer(2018). ***Principles of Biology- An introduction to Biological Concepts*** . second Edition.
2. Peter Raven (2016) ***Biology***. Elven Edition.
3. VJ. Bekish, Yu.T. Nikulin (2006) ***Practical Book on Medical Biology***.
- 4-Glenco-Biology-Dynamic of Life (Megraw 2008).

Electronic references, Internet sites:	
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