

**Vocational School / Opticianry**  
**2024 - 2025 Academic Year**  
**ANATOMY and PHYSIOLOGY of the EYE**  
**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
ANATOMY and PHYSIOLOGY of the EYE	OPT1163420	Fall Semester	1+0	1	6
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Prof.Dr. Bayram Ufuk ŞAKUL				
<b>Name of Lecturer(s)</b>	Lect. Arda KEBAPCI				
<b>Assistant(s)</b>					
<b>Aim</b>	To inform, to make practice about terminology of anatomy, general medical terms, systems and organization of human body.				
<b>Course Content</b>	This course contains; Introduction to Eye Anatomy and Physiology, Bones of orbita, Topographic structure of the eyeball, Conjunctiva, sclera and cornea, Uvea, lens, gaps of eyeball, retina, Eyelids, tears, Cranial nerves and visual pathways, Ways of seeing, Introduction to Visual Physiology, Eye Structures; Cornea, Lens Overview, Conjunctiva, Vitreous, Sclera, Limbus functions and working mechanism, Retinal Functions, Muscle Physiology and working mechanism of eye muscles, Image formation and the central nervous system.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1. Define general concepts in anatomy, general and special terms of anatomy and anatomical positions.			11, 9	A, D	
2. will be able to explain eye anatomy and physiology.			11, 9	A, D	
<b>Teaching Methods</b>	11: Demonstration Method, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, D: Oral Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction to Eye Anatomy and Physiology	Mebis Notes			
2	Bones of orbita	Mebis Notes			
3	Topographic structure of the eyeball	Mebis Notes			
4	Conjunctiva, sclera and cornea	Mebis Notes			
5	Uvea, lens, gaps of eyeball, retina	Mebis Notes			
6	Eyelids, tears	Mebis Notes			
7	Cranial nerves and visual pathways	Mebis Notes			
8	Ways of seeing	Mebis Notes			
9	Introduction to Visual Physiology	Mebis Notes			
10	Eye Structures; Cornea, Lens Overview.	Mebis Notes			
11	Conjunctiva, Vitreous, Sclera, Limbus functions and working mechanism.	Mebis Notes			
12	Retinal Functions	Mebis Notes			
13	Muscle Physiology and working mechanism of eye muscles	Mebis Notes			
14	Image formation and the central nervous system	Mebis Notes			
<b>Evaluation Methods</b>			<b>Weight(%)</b>		
Midterm Exam			40		
General Exam			60		

<b>Resources</b>
Textbook is given to student. 1-Putz R, Pabst R. Sobotta atlas of human anatomy Volume 2 12th English Ed. Munich, Urban & Schwarzenberg 1994 2-Netter FH. Atlas of human anatomy (second edition). USA, Novartis, 1997. 3-Moore KL, Persaud TVN. The Developing Human (Clinically Oriented Embryology). Fifth ed. Philadelphia, WB Saunders Company, 1993 4-Yıldırım M. İnsan Anatomisi. Nobel kitabevi, İstanbul 2003. 5-Arıncı K, Elhan A. Anatomi I, II. Güneş kitabevi, Ankara, 2003. 6-Moore K, AF. Dalley: Clinically oriented anatomy. Fourth ed. Lippincott Williams & Wilkins Company, Philadelphia, 1999