

**Vocational School of Health Services / Opticianry**  
**2023 - 2024 Academic Year**  
**OPTICIANRY I**  
**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>
OPTICIANRY I	OPT1210893	Spring Semester	2+3	3,5	8
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>	Use of Optical Instruments				
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Lect. Hüseyin DEMİR				
<b>Name of Lecturer(s)</b>	Lect. Filiz KARTAL DEMİRHAN				
<b>Assistant(s)</b>					
<b>Aim</b>	The main aim of this lecture is teaching to classification and identification of the lens to teach dioptrics of lenses according to the characteristics of lenses and glasses frames.				
<b>Course Content</b>	This course contains; Classification and properties of lenses, Definition of diopter and formulation of the diopter, Eyeglass prescription and ticket evaluation, Correction of axle concept and astigmatism, Learning eyeglass prescriptions that require transposition, Recognition and measurement of lenses, Lens diopter and axis measurement on analog focometer, Introduction of glasses frames, Identification of diopter power lenses and axle, Frame selection and adjustment, PD detection distance and the installation height, Marking, drawing and shaving of spectacle lenses, Forces in different meridians diopter lenses, Maintenance of the optical tools, hand tools and materials in the opticianry..				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1. explain the procedure of measuring of lens by spherometer, recognition and neutralization of lenses.			16, 8, 9	A	
2. recognize the focometer and prisms.			8, 9	A	
3. define the lenses in terms of their chemical structures.			16, 9	A	
4. Recognize the Polaroid lenses.			9	A	
<b>Teaching Methods</b>	16: Question - Answer Technique, 8: Flipped Classroom Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Classification and properties of lenses	Pre-Reading			
2	Definition of diopter and formulation of the diopter	Pre-Reading			
3	Eyeglass prescription and ticket evaluation,	Pre-Reading			
4	Correction of axle concept and astigmatism	Pre-Reading			
5	Learning eyeglass prescriptions that require transposition	Pre-Reading			
6	Recognition and measurement of lenses	Pre-Reading			
7	Lens diopter and axis measurement on analog focometer	Pre-Reading			
8	Introduction of glasses frames	Pre-Reading			
9	Identification of diopter power lenses and axle	Pre-Reading			
10	Frame selection and adjustment	Pre-Reading			
11	PD detection distance and the installation height	Pre-Reading			
12	Marking, drawing and shaving of spectacle lenses,	Pre-Reading			
13	Forces in different meridians diopter lenses	Pre-Reading			
14	Maintenance of the optical tools, hand tools and materials in the opticianry.	Pre-Reading			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			
<b>Resources</b>					
Aksak, E., Küçüker, T., "Opticianry", Eskişehir, 2005					