### **COURSE OUTLINE**

### (1) GENERAL

SCHOOL	HEALTH & CA				
COURSE CODE	6011-6012 SEMESTER 6 <sup>th</sup>				
COURSE TITLE	CLINICAL OPTOMETRY				
INDEPENDENT TEACHI	INDEPENDENT TEACHING ACTIVITIES				
if credits are awarded for separate components of the course, e.g.			TEACHIN	CREDITS	
lectures, laboratory exercises, etc. If the credits are awarded for the GHOLIRS					
whole of t	whole of the				
course, give the weekly teaching h	ours and the total credits				
LECTURES & LABORATORY EXERCISES		4 (THE) + 3 (LAE	3) 7		
Add rows if necessary. The organisation of teaching and the					
teaching					
methods used are described in detail at (d).					
COURSE TYPE	CSC - Compul	sory Specializati	on Courses		
general					
background, special					
background, specialised general					
knowledge, skills development					
PREREQUISITE COURSES:	5051-5052 Basic Optometry				
	Creak				
	Greek				
EXAMINATIONS:					
IS THE COURSE OFFERED TO	No				
ERASMUS STUDENTS					
COURSE WEBSITE (URL)					

### (2) LEARNING OUTCOMES

#### Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described. Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

The course aims to understand the specialized concepts and principles of Optometry and the application of more specialized clinical techniques related to the control of vision and the correction of various metropolitanities as well as the control of the fundus of the eye.

Upon successful completion of the course the student will be able to:

to understand specialized Optometric concepts and terms.

be familiar with vision control with specialized subjective and objective techniques.

to know specialized ways of controlling the fundus of the eye and the problems that may occur as well as the terminology of their recording to become familiar with special imaging techniques of the eye

<b>General Competences</b> Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?				
Search for, analysis and synthesis of data and information, with the use of the necessary technology Adapting to new situations Decision-making Working independently Team work Working in an international environment Working in an interdisciplinary environment Production of new research ideas	Project planning and management Respect for difference and multiculturalism Respect for the natural environment Showing social, professional and ethical responsibility and sensitivity to gender issues Criticism and self-criticism Production of free, creative and inductive thinking  Others			
Working independently Team work				

# (3) SYLLABUS

Specialized methodology of vision control using specialized Optometric devices, so that students can develop diagnostic reasoning skills.

In detail, the course material includes: Principles of operation and use of specialized Optometric instruments (retinoscope, ophthalmoscope, corneal phoropter, refractometer, slit lamp, tonometer, corneal topography) Slit lamp techniques Corneal tomography - Maps - Analysis - Keratoconus Gonioscopy Tonometry Optical coherence tomography of the anterior and posterior part of the eye OCT Wave front analyzers Amblyopia - Treatment – Light Adaptation Fluoroangiography - OCT angio Biometry (Ascan - Bscan) Synoptophor Specialized tests for control and quality of vision Stereo vision Colored vision Introduction to the visual fields - perimetery General knowledge of ophthalmic surgeries LASIK - Cataract Clinical case studies and research in Optometry.

### (4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face In classroom			
Face-to-face, Distance				
learning, etc.				
USE OF INFORMATION	Learning process support through the electronic platform e-			
ANDCOMMUNICATIONS	class			
TECHNOLOGY				
Use of ICT in teaching, laboratory				
communication with students				
TEACHING METHODS	Activity	Semester workload		
The manner and methods of teaching	Lectures,	52		
are described in detail.	Laboratory practice	39		
Lectures, seminars, laboratory	Study and analysis of	89		
practice, fieldwork, study and analysis	bibliography			
of bibliography, tutorials, placements,	5 1 7			
clinical practice, art workshop,				
interactive teaching, educational visits,				
project, essay writing, artistic				
creativity, etc.				
The student's study hours for each				
learning activity are given as well as	Course total	180		
the nours of non- directed study				
according to the principles of the ECIS		22()		
SIUDENI PERFORMANCE EVALUATION	I. Written final exam (50%)			
	II. Laboratory work (50%)			
Language of evaluation, methods of				
evaluation, summative or conclusive,				
multiple choice questionnaires, short-				
answer questions, open- ended				
questions, problem solving, written				
work, essay/report, oral examination,				
public presentation, laboratory work,				
clinical examination of patient, art				
interpretation, other				
Specifically-defined evaluation criteria				
are given, and if and where they are				
accessible to students.				

### (5) ATTACHED BIBLIOGRAPHY

# - Suggested bibliography:

Greek

- 1. "Optometry II", Pateras Evangelos Ion Publications, 2010, ISBN 9789606970429
- 2. Clinical refraction, Fotinakis, Pateras, Chandrinos Ion Publications, 2000
- 3. Refraction, Damanakis Litsas Publications, 1999.
- 4. Ophthalmology, Leydhecker Wolfgang, Litsas Publications 1997

English

- 1. Optics of the Human Eye, Atchison A.D., Smith G., 2nd edition, Butterworth-Heinemann, 2002.
- 2. Clinical Optics, Elkington A.R. and Frank H.J., 2nd edition, Blackwell Scientific Publications, 1991.
- 3. Introduction to the optics of the Eye, Goss A. David and West W. Roger, Butterworth-Heinemann, 2002.

- 4. Optics and Refraction, a User-Friendly Guide, Miller David, 2nd edition, εκδόσεις Mosby, 1996.
- 5. Environmental vision, Interactions of the Eye, Vision and the Environment, Pitts G. Donald, Kleinstein N. Robert, Butterworth-Heinemann, 1993.
- 6. Ophthalmology Spalton J.H., Hitchings A., Hunter A. Paul, 2nd edition, Wolfe Publishing, 1994.
- 7. Optometric Instrumentation Henson, D.B. Butterworth-Heinemann, 1996.
- 8. Optometry, Keith Edwards, Richard Llewellyn, εκδόσεις London, Boston, Butterworths, 1988
- 9. Clinical Ophthalmology: A Systematic Approach: Expert Consult: Online and Print", 7e (Expert Consult Title: Online...by Jack J. Kanski and Brad Bowling FRANZCO (May 16, 2011)
- The Ophthalmic Assistant: A Text for Allied and Associated Ophthalmic Personnel: Expert Consult - Online and Print.. Harold A. Stein, Raymond M. Stein and Melvin I. Freeman (Aug 29, 2012)
- 11. The Wills Eye Manual: Office and Emergency Room Diagnosis and Treatment of Eye Disease Adam T. Gerstenblith and Michael P. Rabinowitz (Mar 19, 2012)