COURSE OUTLINE

(1) GENERAL

SCHOOL	HEALTH & CARE SCIENCES		
ACADEMIC UNIT	BIOMEDICAL SCIENCES		
DIVISION	OPTICS AND OPTOMETRY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	7011-7012	**SEMESTER**	7th
COURSE TITLE	SPECIAL OPTOMETRIC INVESTIGATIVE TECHNIQUES		

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures,laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	**WEEKLY TEACHIN GHOURS**	**CREDITS**
Lectures + Laboratory Exercises	(4 + 2)	7
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	*Specialised knowledge, skills development*
PREREQUISITE COURSES:	6011 -6012 CLINICAL OPTOMETRY
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	GREEK
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO
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 material aims at understanding its specialized concepts of Optometry and the application of more specialized clinical techniques on eye examination.

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

- understand basic concepts of optical eye control.
- be familiar with devices and optometric instruments for eye investigation
- to know ways of preoperative eye examination and emergency incidents that may occur

General Competences *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**

- Slit lamp techniques for optometric eye investigation.
- Direct and indirect lighting techniques
- Van Herick anterior chamber angle evaluation technique
- Smith's anterior chamber angle assessment technique and its modification
- Optical disc control technique with Volk lenses
- Anterior chamber angle control methodology (angulation)
- Corneal topography
- Methodology of interpretation and recording visual fields.
- Perimetry, reading results and diagnosis
- Optical coherence tomography (OCT)
- Methodology for stereoscopic and color vision evaluation
- Biometric eye test (Axial measurements, caliper)
- Preoperative optometric examination for refractive surgeries
- Ophthalmic emergencies First aid

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face-to-face
USE OF INFORMATION ANDCOMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	Use of Open E-Class in teaching, laboratory education

TEACHING METHODS *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, 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 the hours of non- directed study according to the principles of the ECTS*	***Activity***	***Semester workload***
	Lectures	52
	Laboratory practice	26
	Study and analysis of bibliography, tutorials	102
	Course total	180

STUDENT PERFORMANCE EVALUATION *Description of the evaluation procedure* *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.*	I. Written final exam (50%) II Laboratory exercises (50%)

(5) ATTACHED BIBLIOGRAPHY

- *Suggested bibliography:*
- ***GREEK***

1. ***Investigative Techniques in Optomety*** **Dr. Aristidis Chandrinos***, ION Publications* ***2012*** *ISBN 978-960-508-053-2,*

2. ***Refraction-Basic Principles and Technique***, **Damanakis Alexandros***, 2nd edition, Litsa Medical Publications,* ***1999****.*

- ***ENGLISH***

3, ***Optometry,*** **Keith Edwards**, *Richard Llewelly Publications, London_Boston, Butterworths,* ***1988***

4. ***Optics and Refraction, a User-Friendly Guide,*** **Miller David***, 2nd edition, Mosby,* ***1996****.*

5 ***Optometric Instrumentation*** **- Henson, D.B.** *, Butterworth- Heinemann* ***1996****.*