

COURSE OUTLINE

(1) GENERAL

SCHOOL	HEALTH & CARE SCIENCES		
ACADEMIC UNIT	BIOMEDICAL SCIENCES		
DIVISION	OPTICS AND OPTOMETRY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	6021	SEMESTER	6 th
COURSE TITLE	GLAUCOMA AND PERIMETRY		
INDEPENDENT TEACHING ACTIVITIES <i>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</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures		3	5
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	<i>Specialised knowledge,</i>		
PREREQUISITE COURSES:	None		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	GREEK		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO		
COURSE WEBSITE (URL)	..		

(2) LEARNING OUTCOMES

<p>Learning outcomes <i>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</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i>
<p>Upon successful completion of the course the student will be able:</p> <ul style="list-style-type: none"> • to understand the basic types of glaucoma • be aware of the risk factors for glaucoma and recognize screening methods. • to know the basic medicines that used to assess the development of glaucoma. • to possess the basic ways of treating glaucoma and to know how to monitor and assist in treatment • to have knowledge of its basic operating principles of perimeter • to know the programs and strategies of different types of perimeters • to evaluate the results of the perimeter using indicators and maps for the differential diagnosis of glaucoma • to know data for the understanding of scientific methods of research about glaucoma.

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?

<i>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</i>	<i>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...</i>
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*Working independently
Team work.*

(3) SYLLABUS

- Types of Glaucoma - Epidemiology - Prognosis and symptoms
- Intraocular pressure change and Angiography - Optical disc examination and differential diagnosis of glaucoma
- Glaucoma risk factors - Glaucoma treatment -
- Pharmaceutical and other therapeutic methods - Common pharmaceuticals treatments - Laser treatment - Surgical treatment
- Perimeter types - Sensitivity threshold and indicators - Programs and strategies - Statistics and algorithms in perimetry.
- Visual field test, relationship between functional and structural loss of sensitivity for monitoring disease progression.
- Perimeter printout results, Reliability Indicators, General Indicators and Probability maps - Statistical perimeter packages and algorithms.
- Studies and Research on the treatment and development of Glaucoma

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of Open E-Class in teaching	
<p style="text-align: center;">TEACHING METHODS</p> <p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>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.</i></p> <p><i>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</i></p>	Activity	Semester workload
	Lectures	39
	Study and analysis of bibliography, tutorials	51
	Course total	90
<p>STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	I. Written final exam (100%)	

(5) ATTACHED BIBLIOGRAPHY

<ul style="list-style-type: none"> - <i>Suggested bibliography:</i> - GREEK 1. <i>Glaucoma and Perimetry</i> – Dr. Aristidis Chandrinos, ION Publications 2018, ISBN 9789605082765 2. <i>Atlas of fluoroangiography & optical tomography (OCT) of macular degeneration and glaucoma</i> - Papavassiliou E. - Razis L. - Gratsonidis A. <i>University Studio Press Publications- Thessaloniki 2012</i>, 3. <i>Ophthalmology 10: Glaucoma</i> - American Academy of Ophthalmology, <i>Paschalidis, 1996</i> - ENGLISH 4. <i>Aspects of Automated Perimetry</i> – Dr. Aris Chandrinos 2021- LAP LAMBERT Academic Publishing

ISBN: 978-620-2-56290-4

5. **Glaucoma** - A Garg, Jaypee Brothers Medical Pub, 2010

6. **Effective Perimetry – The Field Analyzer Primer- 4th Edition** – Heijl A, - Patela V.M. – Bengtsson B. – Carl Zeiss Meditec – 2012.

7 **Glaucoma: Identification and Co-Management-** D Edgar, A R Rudnika –Butterworth –Heinemann Medical, 2007