

COURSE OUTLINE

(1) GENERAL

SCHOOL	HEALTH & CARE SCIENCES		
ACADEMIC UNIT	BIOMEDICAL SCIENCES		
DIVISION	OPTICS & OPTOMETRY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	6031-6032	SEMESTER	6 th
COURSE TITLE	CONTACT LENSES I		
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		4	7
Labs		2	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Special background		
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	N/A		

(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>The syllabus addresses to understand the basic principles of contact lenses and Fitting of basic types of contact lenses for the correction of the ametropic eye. Understanding the basic scientific principles related to the fitting of the contact lens and skills for clinical decision-making in the preliminary stages of contact lens evaluation</p> <p>Upon completion of the syllabus the students will:</p> <ul style="list-style-type: none"> • understand the basic concepts of contact lens • demonstrate practical skills for assessing their suitability patients for the use of contact lenses • demonstrate practice skills in recognition, control and description of the contact lens ordering process • demonstrate knowledge of the material characteristics of contact lenses and contact lens solutions • demonstrate clinical dexterity in handling contact lenses • demonstrate basic clinical decision-making skills during interpretation evaluation of the

- elements and their implications for lens selection contact and their fitting
- describe the effect of the anterior eye anatomy and physiology during the use of contact lenses and the influence of the contact lens fitting on anterior structures
- description of the optical principles of soft and hard lenses and their implications for fitting
- know the topics and contact lenses to understand them scientific research methods in clinical fitting of contact lenses
- be familiar with contact lens and medical science thinking about contact lenses

<p>General Competences <i>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></p>	
<p><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></p>	<p><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></p>
<p><i>Working independently Team work</i></p>	

(3) SYLLABUS

History of contact lenses,
Contact lens materials, specifications, material characteristics,
Contact lens manufacturing methods,
Optical characteristics - Tolerances and quality control, confirmation of parameters,
radius measurement, interpretation of surface shape, power, thickness, percentage hydrophilicity, wetting angle, oxygen permeability, surface quality,
Equipment for the application of contact lenses
Procedure for fitting soft contact lenses, Selecting a lens type
Soft contact lenses solutions
Monitoring-Complications
Toric contact lenses
Colored contact lenses

(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>	Delivery of the syllabus is supported by e-class.	
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <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> <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>	Activity	Semester workload
	Lectures	52 hours
	Laboratory practice	26 hours
	Self study	102 hours
	Course total	180 hours
STUDENT PERFORMANCE EVALUATION <i>Description of the evaluation procedure</i> <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> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	Written assessment 50% Practical assessment 50%	

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Πρακτικός οδηγός εφαρμογής φακών επαφής. ISBN: 978-960-603-090-1. ID Ευδόξου: 320231
- Σκληροί και μαλακοί φακοί επαφής - Stein, Harold A. - Αθήνα : Ιατρικές εκδόσεις Λίτσας, 1983
- Φακοί επαφής - Κολιόπουλος, Γιάννης. - Αθήνα : Παρισιάνος, 1997
- Clinical Manual of Contact Lenses. Bennett ES, 4th edition Philadelphia : Wolters Kluwer/Lippincott Williams and Wilkins, 2013
- Contact lens optics and lens design. Douthwaite. - W.A – 3 rd edition Oxford ; Boston : Butterworth-Heinemann, 2006-
- Contact Lens Complications Efron, N 3rd edition Oxford : Saunders, 2012
- Contact Lens Practice Efron ,N , 2nd edition Oxford ; Boston : Butterworth-Heinemann, 2010. 10. The Contact Lens Manual: A Practical Guide to Fitting Andrew Gasson, Judith Morris 4th revised edition Butterworth-Heinemann/ Elsevier Health Sciences 2010
- Contact lenses -. Lowther, G.E. and Snyder. C.r - Boston : Butterworth-Heinemann, 1992
- Contact Lenses ed Phillips AJ : 5 th edition Oxford : Butterworth-Heinemann, 2006

- Contact lens problem solving – Bennet, t E.S.. - St. Louis : Mosby, 1995
- Guide to contact lens fitting – Kastl, P. R. - Boston : Blackwell Scientific Publications, 1992