

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	HEALTH & CARE SCIENCES		
<b>ACADEMIC UNIT</b>	BIOMEDICAL SCIENCES		
<b>DIVISION</b>	OPTICS & OPTOMETRY		
<b>LEVEL OF STUDIES</b>	UNDERGRADUATE		
<b>COURSE CODE</b>	7021-7022	<b>SEMESTER</b>	7 <sup>th</sup>
<b>COURSE TITLE</b>	CONTACT LENSES II		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <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>		<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>
Lectures		4	7
Labs		2	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).			
<b>COURSE TYPE</b> <i>general background, special background, specialised general knowledge, skills development</i>	Special background		
<b>PREREQUISITE COURSES:</b>	6031-6032 CONTACT LENSES I		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	No		
<b>COURSE WEBSITE (URL)</b>	N/A		

### (2) LEARNING OUTCOMES

<p><b>Learning outcomes</b>  <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.</i>            Consult Appendix A</p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i></li> <li>• <i>Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul>
<p>The syllabus addresses to understand special types of contact lenses and their fitting for the correction of refractive errors of the eye. Upon completion of the syllabus the students will:</p> <ul style="list-style-type: none"> <li>• Be able to understand basic principles of fitting of contact lenses</li> <li>• Be comfortable with solving problems with the fitting of contact lenses</li> <li>• Be familiar with research methods in the field of clinical contact lens fitting</li> <li>• Be familiar with the fitting of contact lenses and scientific medical knowledge</li> </ul>

**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**

1. RGP contact lenses: Materials – Designs -Optical Characteristics-Evaluation of fitting - Modification of parameters of RGP
2. RGP torics and bi-torics Evaluation of fitting
3. Scleral haptic lenses Evaluation of fitting
4. Correction presbyopia Bifocals,diffractive, multizones, multifocals monovision
5. Keratoconus, selection of contact lens , soft keratoconic, rgp keratoconic, hybrid , scleral, piggyback
6. Therapeutic lenses postoperative
7. Special contact lenses (orthokeratology, for children, cosmetic ,prosthetic)

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

<b>DELIVERY</b> <i>Face-to-face, Distance learning, etc.</i>	Face to face.	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i>	Delivery of the syllabus is supported by e-class.	
<b>TEACHING METHODS</b> <i>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.</i>	<b>Activity</b>	<b>Semester workload</b>
<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>	Lectures	52 hours
	Laboratory practice	26 hours
	Self study	102 hours
	Course total	180 hours
<b>STUDENT PERFORMANCE EVALUATION</b> <i>Description of the evaluation procedure</i>	Written assessment 50% Practical assessment 50%	
<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>		

#### (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
- Φακοί επαφής Κατσούλος, Κ, Μακρυγιάννη, Δ. Αθήνα: Σύγχρονη Γνώση, 2010
- Manual of gas permeable contact lenses Bennett, E.. 2nd ed. St. Louis : B-H, 2004.
- Contact Lenses A-Z Efron, N. Oxford ; Boston : Butterworth-Heinemann, 2002.
- Clinical manual of specialized contact lens prescribing Scheid, T. R. Boston : Butterworth-Heinemann, 2002.
- Diagnosis, fitting and care of the keratoconus patient Zadnik K. , . Oxford : Butterworth-Heinemann, 1999.
- The cornea : its examination in contact lens practice / ed Nathan Efron. Oxford : Butterworth-Heinemann, 2001

- Keratoconus & keratoectasia : prevention, diagnosis, and treatment / ed.by Ming Wang Thorofare, NJ : SLACK, 2010