COURSE OUTLINE

(1) GENERAL

SCHOOL	HEALTH & CARE SCIENCES		
ACADEMIC UNIT	BIOMEDICAL SCIENCES		
DIVISION	OPTICS & OPTOMETRY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	6051-6052	SEMESTER 6th	
COURSE TITLE	ORTHOPTICS		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY	
if credits are awarded for separate components of the course, e.g.		TEACHING	CREDITS
lectures, laboratory exercises, etc. If the credits are awarded for the			
whole of the			
course, give the weekly teaching ho			6
	Lectures	3	6
	Labs	2	
Add rows if necessary. The organisation of methods used are described in detail at (c			
COURSE TYPE	Special background		
general			
background, special background,			
specialised general			
knowledge, skills development			
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION and	Greek		
EXAMINATIONS:			
IS THE COURSE OFFERED TO	No		
ERASMUS STUDENTS			
COURSE WEBSITE (URL)	N/A		

(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 syllabus addresses to understand the basic concepts of the binocular vision and orthoptics as well as the treatment of non orthophoric problems.

Upon successful completion of the syllabus the student will:

- Be able to understand basic concepts of binocular vision.
- Be comfortable with solving binocular vision problems and oculomotor disorders
- Be familiar know and understand the ways of examining the binocular vision
- Enable the student to understand basic concepts of orthoptics
- Be familiar with solving non orthophoric problems.
- Be able To know the application of orthoptic principles

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...

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Working independently Team work

(3) SYLLABUS

- 1. The muscles of the eye and their movements
- 2. Binocular vision, level of binocular vision, development of binocular vision,
- 3. stereoscopic vision, stereograms,
- 4. Retinal correspondence, matching, horopter, Panum space
- 5. Accommodative convergence
- 6. Binocular dysfunctionw and sensory abnormalities, eccentric focus
- 7. Classification of strabismus: phories heterophories, tropies
- 8. Amblyopia, clinical investigation, treatment
- 9. Tests for binocular vision
- 10. Test methods for strabismus
- 11. Classification of strabismus: phories heterophories, tropies
- 12. Types of strabismus: etiology, diagnosis and treatment Visual practice for binocular dysfunctions
- 13. Orthoptic treatment
- 14. Strabismus surgery

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face to face.			
Face-to-face, Distance				
learning, etc.				
USE OF INFORMATION	Delivery of the syllabus is supported by e-class.			
ANDCOMMUNICATIONS				
TECHNOLOGY				
Use of ICT in teaching, laboratory education.				
communication with students				
TEACHING METHODS	Activity	Semester workload		
The manner and methods of teaching	Lectures	39 hours		
are described in detail.	Laboratory practice	26 hours		
Lectures, seminars, laboratory	Self study	85 hours		
practice, fieldwork, study and analysis	Jen study	85 110013		
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	Course total	150 hours		
learning activity are given as well as	course total	130 110013		
the hours of non- directed study				
according to the principles of the ECTS				
STUDENT PERFORMANCE EVALUATION				
Description of the evaluation procedure Practical assessment 50%				
language of combination months do of				
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:

- Στραβισμοί και οφθαλμοκινητικές διαταραχές Δαμανάκις Α., Θεοδοσιάδης Γ. Γουδί : Ιατρικές εκδόσεις Λίτσας, 1992.
- Βασικές αρχές στραβισμού Θεοδοσιάδης Γ., Δαμανάκις Α. Αθήνα: Ιατρικές εκδόσεις Λίτσας, 1981 Ξενόγλωσση
- Clinical procedures for ocular examination Nancy B. Carlson Stamford, Conn: Appleton
 Lange, 1996
- Visual perception Steven H Schwartz –Norwalk Appleton & Lange, 1994
- Binocular vision and ocular motility theory and management of strabismus/ Gunter K von Noorden –St Louis: Mosby, 1996
- Binocular anomalies diagnosis and vision therapy / John R Griffin, J David Grisham
 Oxford: Butterworth-Heinemann, 1995
- Binocular vision anomalies investigation and treatment/ David Pickwell Oxford : Butterworth- Heinemann, 1994
- Binocular vision and orthoptics investigation and management / J W Bruce Evans, Sandip Doshi Oxford: Butterworth_ Heinemann, 2001
- A systematic approach to strabismus Karlsson, V. C. 2nd ed. Thorofare, NJ: SLACK, 2009.

- Pediatric ophthalmology and strabismus ,Strominger, M B. St. Louis, Mo. ; London : Mosby, 2008. Strabismus, Billson, F. A. London : BMJ Books, 2003.
- Clinical management of binocular vision: heterophoric, accommodative, and eye
 movement disorders Scheiman, Mitchell 4th ed.Philadelphia: Lippincott Williams &
 Wilkins, 2014.
- Normal binocular vision: theory, investigation and practical aspects Stidwill, David Oxford: Wiley-Blackwell, 2011.

Relevant Journals

- American Association of Paediatric Ophthalmology and Strabismus
- American Orthoptic Journal
- British Journal of Orthoptics
- Optometry and Vision Science
- Perception
- Vision research