



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Fisica e Chimica - Emilio Segrè
ACADEMIC YEAR	2019/2020
BACHELOR'S DEGREE (BSC)	OPTICS AND OPTOMETRY
SUBJECT	CONTACT LENSES - PRACTICE II
TYPE OF EDUCATIONAL ACTIVITY	S
AMBIT	10963-Per stages e tirocini presso imprese, enti pubblici o privati, ordini professionali
CODE	20231
SCIENTIFIC SECTOR(S)	
HEAD PROFESSOR(S)	MICCICHE' SALVATORE Professore Ordinario Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	11
INDIVIDUAL STUDY (Hrs)	0
COURSE ACTIVITY (Hrs)	275
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	3
TERM (SEMESTER)	2° semester
ATTENDANCE	Not mandatory
EVALUATION	Pass/Fail
TEACHER OFFICE HOURS	MICCICHE' SALVATORE Tuesday 15:00 17:00 Dipartimento di Fisica e Chimica, Viale delle Scienze, Ed. 18, Studio del docente. Gli studenti sono pregati di iscriversi tramite portale UNIPA. \ Department of Physics and Chemistry, Viale delle Scienze, Ed. 18, Lecturer's office. Students are requested to register through the UNIPA portal.

DOCENTE: Prof. SALVATORE MICCICHE'

PREREQUISITES	Knowledge of Contactology I is required
LEARNING OUTCOMES	<p>Knowledge and understanding: to acquire advanced contactology and relevant instrumentation knowledge.</p> <p>Knowledge and skills to be acquired: to acquire the superior contents of contactology or to know the contact field in all its forms.</p> <p>Ability to apply knowledge and understanding: perform a preliminary examination for the indication of the use of contact lenses up to the application of contact lenses with both soft and rigid structure.</p> <p>Making judgments: acquiring conscious autonomy of judgment in the clinical evaluation and in the use of useful tools in contactology.</p> <p>Communication skills: acquisition of skills and tools to present specialized data.</p> <p>Learning skills: development and deepening of the knowledge acquired through the consultation and research of the existing literature on a chosen topic.</p>
ASSESSMENT METHODS	<p>The practical activities will have for a final evaluation which will consist of a written report, drawn up by each student, on the internship activities carried out and possibly a power-point presentation. This report will be evaluated by the Apprenticeship Committee which will be established as soon as the Course Committee is established. This Commission will evaluate the students' reports taking into account:</p> <ul style="list-style-type: none">• compliance with the activities carried out with respect to the training project proposed by the trainee and / or the traineeship transparency sheet• skills acquired• evaluation of the company tutor and / or professional who will carry out the practical and frontal training <p>The Apprenticeship Committee will draw up a specific report detailing the opinions of the Committee on the activities carried out by each student. A summary version of this judgment will be reported in the final report which will have to be signed by the university tutor of each student for the considered practical activities.</p> <p>The evaluation of the practical activities concludes with a judgment of suitability / inadequacy.</p>
EDUCATIONAL OBJECTIVES	<p>At the end of the course the student must be able to have acquired:</p> <ul style="list-style-type: none">- clinical skills on the evaluation and choice of contact lenses applied both on corneas with regular and unusual surfaces, for optical and non-optical purposes.- use of useful tools for contact lens practice- knowledge of the various complications in contactology.
TEACHING METHODS	applied lectures and practical activities
SUGGESTED BIBLIOGRAPHY	<p>Lupelli L, Fletcher R, Rossi A. "Contattologia. una guida clinica. Medical books 1998.</p> <p>Gasson A., Morris J.A. "The contact lens manual. a practical guide to fitting" fourth edition. ed. butterworth-heinemann 2010.</p> <p>Veys J, Meyler J, Davies I. Elementi essenziali nella pratica delle lenti a contatto. the vision care institute 2009.</p> <p>Efron N. "contact lens practice". second edition. ed. butterworth-heinemann 2010.</p> <p>Zeri F, Calossi A, Fossetti A, Rossetti A. ottica visuale. editrice universo roma, 2012.</p> <p>Dispense e appunti.</p>

SYLLABUS

Hrs	Others
150	<p>Lenses for continuous and prolonged use: Materials, physiological considerations and application criteria, the DK / T.</p> <p>Pediatric contactology: Pathologies and visual defects corrected with contact lenses, Indications and contraindications, Materials and parameters in pediatric contactology, Training and application management of contact lenses in children, Application protocol.</p> <p>Inverse geometry lens: Materials, Geometries, Technical characteristics, Indications and contraindications.</p> <p>Hybrid lens: Materials and construction methods, Technical characteristics, Indications and contraindications, Scleral lens, History, Materials, Scleral lens geometry, Indications and contraindications, Application criteria, Scleral lens management, Pre-application assessments, Advantages, limits and complications, Post-application assessments and follow-up.</p> <p>Orthokeratology: Historical outline, principle of operation, indications and contraindications, geometric characteristics of the lens, application technique and pre and post application evaluations.</p> <p>Compensation of presbyopia using contact lenses: monovision, bifocal lenses, simultaneous lenses, choice between RGP and soft solution.</p> <p>The outpatient management of the contact lens wearer: The anamnestic interview, evaluation of the refractive state, evaluation of binocular vision, examination in slit lamp, test of tear film and ocular surface, vital dyes, Use of ophthalmometer, use of the keratometer, use of the topographer, corneal, use of the slit lamp (inspection techniques), pachymetry, aberrometry and wavefront analysis, endothelial microscopy. Optical coherence tomography for the cornea. Identification of the parameters of soft and rigid corneal and scleral contact lenses, modification of rigid contact lens parameters.</p> <p>Informed consent and legal aspects in contactology. More frequent complications and problems when using contact lenses. Hygiene and maintenance of contact lenses.</p>
125	<p>Practical activities of student's choice 1 (125 out of 275 hours)</p> <p>Other internship activities compatible with the above contents</p>