



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Fisica e Chimica - Emilio Segrè
ACADEMIC YEAR	2020/2021
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)	MILITELLO VALERIA 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	MILITELLO VALERIA Monday 15:00 17:00 Ufficio personale al primo piano dell'Edificio 18 Viale delle Scienze. Si prega di contattarmi preventivamente via email per conferma.

DOCENTE: Prof.ssa VALERIA MILITELLO

PREREQUISITES	Knowledge of Contactology I is required
LEARNING OUTCOMES	<p>Knowledge and understanding: acquiring advanced knowledge on contactology and relevant instrumentation.</p> <p>Knowledge and skills to be acquired: acquiring the main contents of contactology or knowing the field of contactology in all its forms.</p> <p>Applying knowledge and understanding: carrying out a preliminary examination to indicate the use of contact lenses up to their application with both soft and rigid structure.</p> <p>Making judgments: acquisition of judgment autonomy in clinical evaluation and in the use of useful tools of contactology.</p> <p>Communication skills: acquisition of skills and tools to illustrate specialized data.</p> <p>Learning skills: development and deepening of knowledge through consultation and research of existing literature on a chosen topic.</p>
ASSESSMENT METHODS	<p>The traineeships' final assessment will consist of a written report, prepared by each student, on the internship activities carried out and possibly a power-point presentation.</p> <p>This report will be evaluated by the Internal Traineeship Committee (ATC). The Committee will evaluate the students' reports taking into account:</p> <ul style="list-style-type: none">• adherence of the activities carried out with respect to the training project proposed by the trainee and/or the traineeship program reported below• acquired skills• assessment of the company tutor <p>The Internal Traineeship Committee will draw up a special report detailing the Committee's judgments on the traineeship carried out by each student. A concise version of this judgment will be reported in the final report which must be signed by the university tutor of each student for the internship considered.</p> <p>Practical tests could be requested.</p> <p>The evaluation of the traineeships ends with an assessment of suitability/unsuitability.</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 irregular unusual surfaces, for optical and non-optical purposes.- useful tools to contactology practice- knowledge of the different complications in contactology.
TEACHING METHODS	applied lectures (2 ECTS - 50 hours), practical activities (4 ECTS - 100 hours), practical activities at student's choice activities (5 ECTS - 125 hours)
SUGGESTED BIBLIOGRAPHY	<p>Lupelli L, Fletcher R, Rossi A; "Contattologia: una guida clinica". Medical books (1998).</p> <p>Gasson A, Morris JA; "The contact lens manual. A practical guide to fitting"; Butterworth-Heinemann (2010)</p> <p>Efron N; "Contact lens practice; Butterworth-Heinemann (2010)</p> <p>Zeri F, Calossi A, Fossetti A, Rossetti A. "Ottica visuale"; Editrice universe (2012)</p> <p>Dispense e appunti.</p>

SYLLABUS

Hrs	Others
150	<p>APPLIED LECTURES</p> <ul style="list-style-type: none"> • Lenses for continuous and prolonged use: Materials, physiological considerations, DK/T. • Pediatric contactology: Pathologies and visual defects correctable with contact lenses, Indications and contraindications, Materials and parameters in pediatric contactology, • Reverse geometry lenses: Materials, Geometries, Technical characteristics, Indications and contraindications. • Hybrid lens: Materials and construction methods, Technical characteristics, Indications and contraindications, • Scleral lens: History, Materials, Geometry of the scleral lens, Indications and contraindications, • Orthokeratology: History, operating principle, indications and contraindications, geometric characteristics of the lens • Compensation of presbyopia through contact lenses: monovision, bifocal lenses, simultaneous lenses, choice between RGP and soft solution • Changing the parameters of rigid contact lenses. • Informed consent and legal aspects in contactology. Frequent complications and problems concerned with the use of contact lenses. Hygiene and maintenance of contact lenses. <p>PRACTICAL ACTIVITIES</p> <ul style="list-style-type: none"> • Lenses for continuous and prolonged use: application criteria • Pediatric contactology: Training and management of the application of contact lenses in children, Application protocol. • Scleral lens: Application criteria, Management of scleral lenses, Pre-application evaluations, Advantages, limits and complications, Post-application evaluations and follow up. • Orthokeratology: application technique and pre- and post- application evaluations. • Compensation of presbyopia through contact lenses: management of lenses for presbyopia • Outpatient management of the contact lens wearer I: test references of the tear film and of the ocular surface, vital dyes, • Outpatient management of the contact lens wearer II: advanced use of the corneal topograph, use of the slit lamp (inspection techniques) in complex contactology, pachymetry, aberrometry and wavefront analysis, endothelial microscopy. Optical coherence tomography for the cornea. Identification of the parameters of the soft and rigid corneal and scleral contact lenses, • Changing the parameters of rigid contact lenses: laboratory tests
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>