



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Fisica e Chimica - Emilio Segrè
ACADEMIC YEAR	2023/2024
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)	Annual
ATTENDANCE	Mandatory
EVALUATION	Out of 30
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. Knowledge in practical methods in contactology.</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 a committee with academic and company tutors of the Course. This committee 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 proposed project and / or the traineeship transparency sheet• skills acquired and specific question on the program• evaluation of the company tutor and / or professional who will carry out the practical and frontal training. <p>Practical tests could be requested.</p> <p>The final evaluation is out of 30 as followed: A+/A Excellent) 30 cum laude-30 Excellent knowledge of teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their knowledge to solve highly complex problems. (B Very Good) 29-27 Very good knowledge of the teaching contents and excellent language control; students should show analytical and synthetic skills and be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity. (C Good) 26-24 Good knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity. (D Satisfactory) 23-21 Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use the specific discipline language and independently apply the acquired knowledge. (E Sufficient) 20-18 Minimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge. (F Fail) 17-1 Lack of an acceptable knowledge of the main teaching content knowledge; very little or no ability to use the specific subject language and apply independently the acquired knowledge.</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- post-surgical contactology- ocular prosthesis
TEACHING METHODS	applied lectures (3 ECTS - 75 hours), practical activities (4 ECTS - 100 hours), practical activities at student's choice activities (4 ECTS - 100 hours)
SUGGESTED BIBLIOGRAPHY	<p>Lupelli L, Fletcher R, Rossi A; "Contattologia: una guida clinica". Medical books (1998). EAN: 9788880340270 ISBN: 8880340271</p> <p>Zeri F., Rossetti A, Fossetti A, Calossi A. "Optica visuale"; Società Editrice Universo (2012). ISBN/EAN: 9788865150771</p> <p>Altri testi: Efron N; "Contact lens practice; Butterworth-Heinemann (2010) Gasson A, Morris JA; "The contact lens manual. A practical guide to fitting"; Butterworth-Heinemann (2010)</p> <p>I testi consigliati sono consultabili nella biblioteca dell'Ed. 18.</p>

SYLLABUS

Hrs	Frontal teaching
75	<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. • Post-surgical 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. • Ocular prosthesis, materials for prosthesis
Hrs	Workshops
100	<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 • Prosthetics: design and construction of prostheses
Hrs	Others
100	<p>Practical activities of student's choice 1 (100 out of 275 hours)</p> <p>Other choice training activities, compatible with the above topics, to be carried out in companies with agreements with Almalaura.</p>