

COURSE OUTCOME

(1) GENERALLY

SCHOOL	HEALTH & WELFARE SCIENCES		
DEPARTMENT	BIOMEDICAL SCIENCES		
DIRECTION	AESTHETICS AND COSMETOLOGY		
LEVEL OF EDUCATION	UNDERGRADUATE		
COURSE CODE	7011-7012	SEMESTER OF STUDIES	7th
COURSE TITLE	ELECTRICAL DERMATOTHERAPY II-LASER		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDIT UNITS
<i>in case that the credits are awarded in separate parts of the course e.g. Lectures, Laboratory Exercises, etc. If the credits are awarded uniformly for the whole course, indicate the weekly teaching hours and the total number of credits.</i>			
Lectures, Laboratory Exercises		3L + 3LE	7
<i>Add rows if needed. The teaching organization and the used teaching methods are described in details in 4.</i>			
COURSE TYPE	SE		
<i>Background, General Knowledge, Scientific Area, Skills Development</i>			
PREREQUISITE COURSES:			
LANGUAGE OF TEACHING AND EXAMS:	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS			
ELECTRONIC COURSE PAGE (URL)			

(2) LEARNING RESULTS

Learning Results

The learning outcomes of the course are described, the specific knowledge, skills and abilities of appropriate level that students will acquire after the successful completion of the course.

Refer to Appendix A.

- *Description of the Level of Learning Outcomes for each course according to the Qualifications Framework of the European Higher Education Area*
- *Descriptive Indicators Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Summary Guide for writing Learning Outcomes*

Aim and objective of the course: With the successful completion of this educational module, students are able to meet the requirements of the specifications of the Legislation for electrosurgical treatment and lasers. This section consolidates knowledge and techniques in electrosurgical treatment and laser hair removal. Students are monitored evaluatively for therapeutic progress and final evaluation of integrated hair removal treatments as well as the management of case-by-case incidents of progressive on-the-ground dermatopathies.

Upon the successful completion of this educational module students are expected to be able to:

- provide thorough guidance in identifying indications and contraindications and design a safe and effective treatment plan and post-treatment guidelines..
- Perform permanent hair removal techniques at the level of a clinical dermatologist
- Recognize the structures of the body and systems in the context of aesthetic therapy
- Apply the methods of treatment of unwanted hair growth disorders in the context of skin treatments.
- Apply particular specialization techniques in laser and Intense Pulsed Light (IPL).
- Explain this difficult process including basic physics principles for lasers and IPL-based treatments for dermatological situations that require phototherapy
- Perform therapeutic techniques for dermatological conditions using Laser & IPL
- Design - plan treatment regimens for dermatological conditions in relation to the wavelength and the appropriate application for each Fitzpatrick phototype
- Manage Laser & IPL for special dermatological conditions with safety and confidence

General Skills

Taking into account the general skills that the graduate must have acquired (as they are listed in the Diploma Supplement and are listed below), which of the following is the aim of the course?

Research, analysis and synthesis of data and information, using the necessary technologies

Adaptation to new situations

Decision making

Autonomous work

Teamwork

Working in international environment

Work in interdisciplinary environment

Production of new research ideas

Project design and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstration of social, professional and moral responsibility and sensitivity in gender issues

Exercising criticism and self-criticism

Promoting free, creative and inductive thinking

...

Others

...

Autonomous work

Teamwork

Working in international environment

Work in interdisciplinary environment

Demonstration of social, professional and moral responsibility and sensitivity in gender issues

(3) COURSE CONTENT

Theoretical Part of the Course

1. Selection, application and development of a method for the treatment of unwanted hair growth on the ground of dermatopathies.
2. Electrosurgical treatment. Theoretical approach to classical and modern methods of hair treatment: thermolysis, electrolysis.
3. Targeted treatment during the session - Complications.
4. Restrictions imposed by the complex biological target - hair follicle
5. Evaluation of the effectiveness of the selected method.
6. Hair growth and aging. Pigmentation and healing disorders in old age.
7. Psycho-aesthetic response to aesthetic problems on the ground of skin diseases - the "difficult patient".
8. Basic biophysics of laser hair removal - Principle of selective photothermolysis.
9. Advanced Laser Hair Removal Training
10. Advanced IPL hair removal training
11. The effect of hair removal lasers on the pigmentation and / or healing mechanisms
12. Dermocosmetic approach after the removal of unwanted hair growth
13. Methodology of result evaluation after the application of the selected method.

Laboratory Part of the Course

1. Hygiene and precautionary measures in the laboratory.
2. Exercise in the recognition of body structures and systems in the context of aesthetic therapy
3. Training in performing permanent hair removal techniques
4. Electrosurgical treatment.
5. Application of methods for the treatment of unwanted hair disorders on the ground of dermatopathies.
6. Design of safe and effective treatment planning and post-treatment guidelines.
7. Choosing the right work position for an aesthetician and occupational hazards.
8. Topical dermocosmetic treatment of unwanted hair growth on the ground of skin diseases.
9. Application of particular laser specialization techniques
10. Application of specialization techniques in Intense Pulsed Light (IPL).
11. Therapeutic techniques for dermatological conditions using Laser
12. Therapeutic techniques for dermatological conditions using IPL
13. Aesthetic restoration schemes for dermatological conditions in relation to wavelength and skin phototype.

(4) TEACHING AND LEARNING METHODS - EVALUATION

COURSE DELIVERY METHODS <i>Face to face, distance education, etc..</i>	FACE TO FACE	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES <i>Use of I.C.T. in Teaching, Laboratory Education, iCommunication with students</i>	<ul style="list-style-type: none"> • Use of I.C.T. in Teaching • Use of e-mail and website of the Department for informing the students <p>Use of the e-class for posting slides, scientific articles, useful links, questions-answers, exercises, etc.</p>	
TEACHING ORGANIZATION <i>The way and methods of teaching are described in detail. Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliography study & analysis, Tutoring, Practice (Placement) Clinical Exercise, Art Workshop, Interactive teaching, Study visits, Projects, Writing Study / Studies, artwork, creation, etc.</i> <i>The student study hours for each learning activity are listed as well as the non-guided study hours so that the total workload at the semester level corresponds to the ECTS</i>	Activity	Semester Workload
	Lectures-Presentations using audiovisual media	120
	Laboratory Exercises	90

<i>standards</i>		
	Total course	210
<p style="text-align: center;">STUDENT EVALUATION</p> <p><i>Description of the evaluation process</i></p> <p><i>Evaluation Language, Evaluation Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Exercise, Composition / Report, Oral Examination, Public Presentation, Public Presentation, Laboratory Exercise, Clinical Examination of Patients, Artistic Interpretation, Other / Others</i></p> <p><i>Explicitly defined Evaluation criteria are stated and if and where they are accessible to students.</i></p>	<p>EVALUATION LANGUAGE: Greek</p> <p>EVALUATION METHODS:</p> <p>THEORETICAL PART: Written final examination (100%) which consists of</p> <ul style="list-style-type: none"> • Essay Development Questions • Multiple Choice Test • Short Answer Questions • characterization of sentences as True or False <p>LABORATORY PART: Written final examination (100%) which consists of</p> <ul style="list-style-type: none"> • Essay Development Questions • Multiple Choice Test • characterization of sentences as True or False 	

(5) RECOMMENDED BIBLIOGRAPHY

Greek:

1. Τσιγώνια – Ευλογιά Α., ΔΕΡΜΑΤΙΚΕΣ ΣΥΝΘΗΚΕΣ ΚΑΙ ΜΕΘΟΔΟΙ ΜΟΝΙΜΗΣ ΑΠΟΤΡΙΧΩΣΗΣ – LASER, ΕΚΔΟΣΕΙΣ ΠΑΠΑΖΗΣΗ ΑΕΒΕ, 2010.
2. Γκρεκ Ι., Αισθητικά προβλήματα από ενδοκρινολογικά νοσήματα, Βήτα Ιατρικές Εκδόσεις.
3. Μπατρίνος Μ., Σύγχρονη Ενδοκρινολογία, Αθήνα 1988.
4. Λεονταρίδου Ι., Αποτρίχωση με Laser και I.P.L., University Studio Press, 2006.

Foreign language:

1. Hinkel Arthur Ralph, Lind W. Richard, Electrolysis, thermolysis and the blend. The principles and practice of permanent hair removal.
2. Besser G.M., Witt M., Hirsuties.
3. Harvey J., Photoepilation with the epil – light removal system, 1998.
4. Nestor Mark S., Laser Hair Removal: clinical results and practical application of selective photothermolysis, 1998.
5. Robert N. Richards, Meharg, G.E., (Gay E.), Gay E. Meharg, Richards, Robert N., Medic, Cosmetic and Medical Electrolysis and Temporary Hair Removal: A Practice Manual and Reference Guide, 1991.

6. David J. Goldberg, Laser Hair Removal, 2000.
7. Sheila Godfrey, Principles and practice of electrical epilation, 2001.
8. David J. Goldberg, Laser Dermatology, 2005.
9. P. Mauvais-Jarvis, Hirsutism, Springer London Limited, 1981.
10. Alan N. Elias, Hirsutism, Grant Gwinup Greenwood Publishing Group Incorporated, 1983.