COURSE OUTCOME

1. GENERALLY

SCHOOL	HEALTH & W	ELFARE SCIENCE	S	
DEPARTMENT	BIOMEDICAL	SCIENCES		
DIRECTION	AESTHETICS	AND COSMETOL	.OGY	
LEVEL OF EDUCATION	UNDERGRAD	DUATE		
COURSE CODE	80131	SEMEST	ER OF STUDIES	8 th
COURSE TITLE	SKIN LASER	APPLICATIONS A	ND PHOTONICS	
INDEPENDENT TEACH in case that the credits are awarded in s Lectures, Laboratory If the credits are awarded uniformly for weekly teaching hours and the	ING ACTIVITIES reparate parts of Exercises, etc. the whole cours total number of c	the course e.g. e, indicate the credits.	WEEKLY TEACHING HOURS	CREDIT UNITS
		Lectures	3	5
Add rows if needed. The teaching organiz methods are described in details in 4.	ation and the use	ed teaching		
COURSE TYPE Background, General Knowledge, Scientific Area, Skills Development	OCSBC			
PREREQUISITE COURSES:				
LANGUAGE OF TEACHING AND EXAMS:	GREEK			
THE COURSE IS OFFERED TO ERASMUS STUDENTS				
ELECTRONIC COURSE PAGE (URL)				

2. LEARNING RESULTS

Learnimg 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

The aim of the course is the understanding by the students of the action of Laser and IPL, their distinction and the indications for their application. They will know the types of Lasers that are applied in Dermatology and also the types that are suitable for hair removal.

The use of Lasers in hair removal, the protection measures that must be taken and the side effects that may arise from their use will be analyzed. The necessary information of the prospective patient for Laser application and the ways of dealing with possible side effects will be mentioned.

Upon the completion of the course, students will know the types and categories of lasers applied for hair removal on the skin, the protection measures they should take for themselves and their patients, as well as the side effects from the application of laser radiation.

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

- 1. Definition and physics of LASER
- 2. Laser penetration into the tissues
- 3. IPL Definition, mode of action
- 4. Laser Applications in Medicine
- 5. Laser applications in Dermatology
- 6. The use of Laser in hair removal
- 7. Ruby Laser
- 8. Alexandrite Laser

- 9. Diode Laser
- 10. ND YAG Laser
- 11. Approach and inform the patient about the Laser
- 12. Laser application in women with endocrine diseases
- 13. Laser application in pregnancy
- 14. Protection measures during Laser application
- 15. Side effects from Laser application in Dermatology
- 16. Dealing with side effects

4. TEACHING AND LEARNING METHODS - EVALUATION

COURSE DELIVERY METHODS Face to face, distance education, etc	FACE TO FACE			
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES Use of I.C.T. in Teaching, Laboratory Education, iCommunication with students	 Use of I.C.T. in Teaching Use of e-mail and website of the Department for informing the students Use of the e-class for posting slides, scientific articles, useful links, questions-answers, exercises, etc. 			
TEACHING ORGANIZATION 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. 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 standards	Activity Lectures-Presentations using audiovisual media	Semester Workload 90		
STUDENT EVALUATION Description of the evaluation process 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	EVALUATION LANGUAG EVALUATION METHOD Written examination with characterization of senter	GE: Greek PS: multiple choice and / or nces as True or False.		

Explicitly defined Evaluation criteria are stated				
and if and	where they	are	accessible	to
students.				

5. RECOMMENDED BIBLIOGRAPHY

- 1. Han G. <u>Applications of lasers in medical dermatology</u>. Cutis. 2014; 94: E20-3.
- 2. Hamoudi WK, Ismail RA, Shakir HA. Construction and temporal behaviour study of multi RLC intense light pulses for dermatological applications. J Cosmet Laser Ther.; 19: 325-33.
- Sadighha A, Mohaghegh Zahed G. Meta-analysis of hair removal laser trials. Lasers Med Sci. 2009; 24: 21-5