

COURSE MODULE OUTLINE SFPDE

(1) General information

SCHOOL	SCHOOL OF APPLIED ARTS AND SUSTAINABLE DESIGN		
PROGRAM COURSE	LIGHTING DESIGN		
LEVEL OF STUDY	POSTGRADUATE		
COURSE UNIT CODE	SFPDE	YEAR	2nd
COURSE TITLE	MASTER'S THESIS		
INDEPENDENT TEACHING ACTIVITIES		HOURS	CREDITS
		1120	40
COURSE TYPE	Compulsory		
PREREQUISITE COURSES:	SFP50 & SFP51		
LANGUAGE	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO		
COURSE WEBSITE (URL)	https://www.eap.gr/education/postgraduate/annual/light-design/topics/#met		

(2) LEARNING OUTCOMES

Learning Outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult:

APPENDIX A

- *Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework.*
- *Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and*

APPENDIX B

- *Guidelines for writing Learning Outcomes*

Upon successful completion of SFPDE, students will be able to:

Carry out original research on a wide variety of topics of lighting design,

Research, compile, verify, and critically assess information, and effectively organize and present it

Adhere to the principles and rules and standards of lighting design

Effectively and creatively utilize internet/digital tools/media to draft/edit/distribute their texts

Critically and responsibly utilize both primary and secondary sources

General Competences

- Ability to focus on specific objects
- Ability to synthesize, prioritize and evaluate research data
- Ability to use technology tools
- Ability to respond immediately to urgent and emergency situations and to take decisions
- Ability to communicate with different contexts (social, cultural, religious, racial, gender).
- Ability to work in a team
- Ability to think critically and comparatively

(3) COURSE CONTENT

The postgraduate thesis is meant to combine and utilize the knowledge students have acquired over the course of their studies.

Students may propose a topic of their choosing for their Postgraduate Diploma Thesis, taking into account a special list of topics (with detailed descriptions) drafted by the C.M. Coordinators. This list is drafted based on the wider subject matter of the postgraduate studies program, as well as those of the six individual C.M. Students must prepare the final topic and description of the Postgraduate Diploma Thesis in collaboration with the counselor.

Indicative topics for research:

- Visual communication
- Basic Principles of Visual Education and Meaning
- Historical Overview of Light in the Arts and in Architecture
- The Psychology of Visual Perception
- Light and Physiology of Visual Perception
- Principles of Photometry and Chromatometry
- Photometric Quantities, Measurements, and Lighting Assessment
- Color Blending and the Color Rendering of Light Sources
- Design and the Geometric Properties of Natural Lighting
- Lighting Techniques, Applications, and the Preparation of comprehensive lighting reports
- Rational Lighting Rules and the Use of Regulations and Standards
- Costs and Benefits of Lighting Project Energy Optimization
- Improvement of optical comfort
- Artificial Light and Lighting Control Technology
- Digital Cinema Equipment
- Visual Narration
- Lighting Approaches from Different Narrative Perspectives
- Visual Interpretation of Different Lighting Conditions
- Light Measurements and Values vis a vis Conditions of Selected Focal Lengths
- Architectural Lighting Design
- Lighting and Color Synthesis
- Effects of lighting on humans
- Architectural Analysis and Synthesis with Digital Means – Lighting Simulation
- Lighting Applications & the Creation of Cinematic Visual Narratives
- Use of Color Temperature of Various Types of Lighting Sources
- Forms of Diffused and Reflected Lighting, with the Corresponding Control Accessories
- Directional Lighting Conditions
- Static- and Moving-Image Lighting/Compositions and Frame/Camera Angle Correspondences

4) TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY	• Regular distance counseling meetings on the research and righting of the thesis, as well as the provision of bibliography.
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USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	• Remote meetings tools (webex) • Presentation software (e.g., power point) • Specialized software in the subjects under study for image editing, lighting simulation, rendering and drafting. Additionally, the students use office automation tools, web browsers and e-reader for digital books.
COURSE DESIGN	• Students must first complete the four C.Ms of the 1st and 2nd year in order to begin preparation of their postgraduate diploma thesis. • The general categories for DT subjects are defined by the S.P. Director after consultation with the C.M. Coordinators, and are posted on the H.O.U. website, before the beginning of the period during which students submit their subject proposal. The S.P. Director is required to post instructions regarding issues of scientific methodology in DT preparation on the C.M. website. • Students submit proposals for thesis subjects of their interest (title, objective, and expected results) electronically, through a special educational portal. • The DT preparation period is one year starting at 1st of October. • Students must submit it to the Examination Committee by 20 June. Upon completion of the necessary corrections/improvements according to the observations and comments expressed by the Board, students must submit the final thesis by 30 June. If approved, the DT is presented and defended in September. • Examination Committees are made up of the 1st and 2nd Supervisors. • Students must, after successfully presenting/defending their diploma thesis and incorporating any corrections or additions, even appendices that were indicated to them by the Examination Committee, upload it to the H.O.U. repository (apothesis.eap.gr).

STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS students.	• In order to ensure uniform evaluation of DTs, the final grade of the Examination Committee is based on the evaluation of both the written thesis and the oral presentation. The following grading guide is provided as an example: • https://www.eap.gr/annual-programs/
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5) SUGGESTED BIBLIOGRAPHY:

HOU guides on researching and writing a postgraduate thesis
<https://eevem.eap.gr/services/guides/>