

COURSE MODULE OUTLINE IGDDE

(1) General information

SCHOOL	SCHOOL OF APLIED ARTS AND SUSTAINABLE DESIGN		
PROGRAM COURSE	INTERACTION GENERATIVE DESIGN		
LEVEL OF STUDY	POSTGRADUATE		
COURSE UNIT CODE	IGDDE	YEAR	2nd
COURSE TITLE	POSTGRADUATE DIPLOMACY THESIS		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHNG HOURS	CREDITS	
	840	30	
COURSE TYPE	Compulsory		
PREREQUISITE COURSES:	The presentation of the Master's Thesis takes place after the successful completion of the program's CMs		
LANGUAGE	ENGLISH		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO		
COURSE WEBSITE (URL)	https://www.eap.gr/en/diadrastikos-algorithmikos-sxediasmos/diadrastikos-algorithmikos-sxediasmos-thematikes-enotites/		

(2) LEARNING OUTCOMES

Upon completion of their Postgraduate Diploma Thesis, students will be able to:

- are able to organize synthetic qualitative and quantitative criteria in the design process;
- are able to know the geometric principles that support algorithmic design;
- understand fundamental concepts and processes of algorithmic thinking for spatial design;
- are able to organize synthetic qualitative and quantitative criteria in the design process;
- design using algorithms;
- have a fundamental understanding of digital manufacturing;
- have the ability to develop interactions between designed spaces or objects and people or the environment.

General Competences

- Data and information search, analysis, and synthesis using the required technologies;
- making decisions;
- working independently;
- working in a multidisciplinary setting;
- encouraging free, original, and inductive thought;
- encouraging original, synthetic thought.

(3) COURSE CONTENT

Both a project that is relevant to the research work's subject and an individual text research paper on a subject that was developed in the thematic units of the previous semesters are required.

The general categories of subjects for Postgraduate Diploma Thesis determined by the Director of the postgraduate program after consultation with the Coordinators of the T.U. and are posted on the H.O.U. website, before the start of the period for submission of the relevant statement by the students.

Thematic fields are indicative and are linked to the specialized knowledge areas of the six Thematic Units of the IGD postgraduate program. The subjects proposed by the students may incorporate elements from two or more of these theme areas.

Examples include:

1. Algorithmic design of object or space
2. Geometrical solution of complex surfaces through algorithmic design
3. Algorithmic design of illusory spaces / objects
4. Design details to digital fabrication
5. Designing interactions between human or environment and object or space
6. Optimizations
7. Morphogenetic processes

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.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	<p>When writing and supervising the Postgraduate Diploma Thesis, the following are used:</p> <ul style="list-style-type: none">• Remote meetings tools (webex)• Presentation software (e.g., power point)• Specialized software in the subjects under study (such as Rhino3D, Grasshopper) <p>Additionally, the students use office automation tools, web browsers and e-reader for digital books.</p>
COURSE DESIGN	

- Students must first complete the six T.U. of the 1st and the 2nd semester 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 T.U. 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 T.U. website.
- The final wording and description of the subject of the DT is done in collaboration with the supervising professor.
- The formal start of preparation of the DT is October 1st for students preparing the DT in the winter semester, while correspondingly for students preparing the DT in the spring semester it is March 1st.
- Candidates start preparing the DT, while submitting the final subject statement electronically through a special educational platform up to one month before the final date for submitting the DT.
- The duration of the DT preparation is one academic semester. The student submits the work to the assessment committee by January 20 - preparation in the winter semester - and June 20 - preparation in the spring semester - respectively. After the necessary corrections/improvements, according to the comments of the Assessment Committee, they submit the final text to the educational platform by January 31 (drafting in the winter semester) or June 30 (drafting in the spring semester) and if it receives a positive assessment, the examination-presentation of the DT it takes place in the period of February with the end of the special examination or in the period of July with the end of the repeat exams.
- The Examination Committees consist of the 1st and 2nd supervisors, as well as the Director (or the Coordinator in cases of authorization) who, however, only participates during the oral examination in the assessment process and therefore also in the formation of the final grade, if and where it deems necessary.
- 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.	<ul style="list-style-type: none">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/en/semi-annual-programs/

SUGGESTED BIBLIOGRAPHY:

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