

COURSE MODULE OUTLINE KYKAE

(1) General information

SCHOOL	School of Science and Technology		
PROGRAM COURSE	Interdisciplinary PSP cultivations under cover- Hydroponics (KYK)		
LEVEL OF STUDY	Postgraduate program-Master of Science (MSc)		
COURSE UNIT CODE	KYKDE	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 requires the successful completion of all the Thematic Units and the Practical Training of the Programme.		
LANGUAGE	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO		
COURSE WEBSITE (URL)	https://www.eap.gr/en/crops-under-cover-hydroponics/topics/#met		

(2) LEARNING OUTCOMES

The learning outcomes expected upon successful completion of the Postgraduate Diploma Thesis are summarized as follows:

Training scientists in the principles, methods and equipment required for greenhouse and net-garden cultivation.

Training of specialists in modern technologies for hydroponic crops.

Scientific and technological training of scientists in the application of modern cultivation methods and bioclimatic design in research, the agricultural equipment and agricultural supplies industry.

To familiarise postgraduate students with modern relevant laboratory and experimental equipment.

The training of postgraduate students in the organisation and operation of greenhouse and net-grower units.

The creation of an adequate human potential of qualified scientists who will be able to staff existing units of production of products under cover, study offices, agricultural research centres and public services on the one hand and to work as self-employed in their own relevant unit of production of products under cover on the other hand.

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 Diploma Thesis will be a scientific paper of a bibliographical nature and/or a research paper and will be an in-depth investigation of a topic as it is currently formulated. The specific topic will be related to the P.D.Th. and a subject area and the student will be given the opportunity to work in depth on a subset of the science that interests him/her the most. A supervisor – advisor will be appointed who will cooperate and advise the student as well as a three-member committee that will evaluate the Thesis. There will be frequent face-to-face meetings or teleconferences between the supervisor and the student until the teaching objectives of the dissertation are fulfilled. The student will undertake the writing of the dissertation ~80-100 pages, and at the end, before the three-member examination committee, in an open seminar, the student will present the P.D.Th. in the form of a lecture. It has a duration of one academic semester. Indicative topics for research:

- Energy use efficiency within greenhouses of different type and cultivation mode.
- Greenhouse climate effect on transpiration and water use
- The effect of ventilation of the greenhouse on cultivation microclima and other characteristics
- Evaluation of the different lettuce varieties against pathogen attacks
- The use of endophytic microorganisms against phytopathogenic fungi in hydroponic lettuce culture
- Light intensity and quality within greenhouses
- Factors affecting CO₂ concentration within greenhouses
- Interaction between phenolics and plant growth in greenhouse cultivations

TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY	<ul style="list-style-type: none">• Experimental work within greenhouses and labs• 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	<ul style="list-style-type: none">• Remote meetings tools (webex)• Presentation software (e.g., power point)• Specialized software in the subjects under study. Additionally, the students use office automation tools, web browsers and e-reader for digital books.
COURSE DESIGN	<ul style="list-style-type: none">• Students must first complete the six T.U. of the 1st, 2nd, and 3rd 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.

- Students submit proposals for thesis subjects of their interest (title, objective, and expected results) electronically, through a special educational portal.
- Students who plan to prepare their DT in the spring semester may submit their thesis proposal from 1st of December until the 15th of January. Students who plan to prepare their DT in the fall semester may submit their thesis proposal first of June until the 15th of July.
- The DT preparation period is one academic semester.
- Students writing their DT in the fall semester must submit it to the Examination Committee by 20 January, and students writing their DT in the spring semester must submit it 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 31 January or 30 June correspondingly for the fall and spring semesters. If approved, the DT is presented and defended in February, after the end of

	<p>exams period or in July, after the repeat exams.</p> <ul style="list-style-type: none"> • Examination Committees are made up of the 1st and 2nd Supervisors, in addition to the Director (or the T.U. Coordinator, if authorized by the Director). The latter only participates in the oral presentation, and thus in the final grade, whenever and wherever it is deemed necessary. Other Faculty Members or H.O.U. Teaching Staff or researchers may be present at the oral presentation as external observers, and may express their opinion. • 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).
<p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS students.</p>	<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/>

