10th SEMESTER

UNDERGRADUATE THESIS
COURSE OUTLINE

GENERAL

SCHOOL	AGRICULTURAL SCIENCES		
DEPARTMENT	FOOD SCIENCE & NUTRITION		
PROGRAMME	UNDERGRADUATE		
COURSE CODE	ΠΤΥΧ	**SEMESTER**	9th,10th,11th
COURSE TITLE	UNDERGRADUATE THESIS		

INDEPENDENT TEACHING ACTIVITIES	**TEACHING HOURS PER WEEK**	**CREDIT UNITS**
LECTURES	0	30
LABORATORY	0	

COURSE TYPE	Specialization – In-depth Study
PREREQUISITES	-
TEACHING AND EXAM LANGUAGE	Greek
COURSE OFFERED TO ERASMUS STUDENTS	Yes
COURSE SITE (URL)	https://food.uth.gr/wp-content/uploads/2022/10/Κανονισμός-Εκπόνησης-Προπτυχιακών-Διπλωματικών-Εργασιών-ΤΕΤΔ.pdf

LEARNING OUTCOME

Learning outcome

The purpose of the Undergraduate Thesis is to provide students who have completed their 7th semester of studies with the opportunity, during the 8th, 9th, and 10th semesters, to carry out a specialized literature review and, primarily, original and applied research on specific and contemporary topics in the field of food science and nutrition. Through this process, students are expected to develop advanced skills in laboratory food analysis, new product development, and the collection and processing of nutritional and epidemiological data, or other data related to agricultural production and economics, ultimately contributing to the generation of new scientific knowledge. Additionally, engagement with the Undergraduate Thesis allows students to deepen their understanding of modern techniques and methods for the production, processing, analysis, and presentation of research findings, in alignment with emerging trends in food science and nutrition.

General skills

- In-depth search, analysis, and evaluation of scientific literature
- Advanced specialization in research and innovation in the Agri-Food sector
- Promotion of critical thinking and problem-solving skills in real-world contexts
- Encouragement of both individual and team-based work
- Specialization in the processing and presentation of research data
- Collaboration with the academic supervisor in the design and implementation of research

COURSE CONTENT

The Undergraduate Thesis focuses on specialized research on contemporary topics in the agri-food chain, from farm to plate. This includes issues related to improving agricultural production and marketing, developing new techniques and methods for food processing, preservation, standardization, and quality control, addressing practical problems in industrial food production, developing new and innovative

products in line with modern nutritional and production needs, and studying trends, policies, and outcomes in contemporary nutrition.
Student involvement in the Undergraduate Thesis requires prior foundational knowledge from basic education courses (BE), such as Introduction to Computer Science, Statistical Analysis and Data Processing using Computers, agricultural education courses (AE), such as Introduction to Agronomy and Agri-Food, and primarily utilizes knowledge from core curriculum courses (CC). In combination with specialized courses (SC) offered mainly in the last three semesters of the program (alongside the Undergraduate Thesis), this leads to the development of critical thinking and the synthesis of new knowledge through research.
Specifically, the Undergraduate Thesis involves research and innovation in food science and nutrition, modern trends in the food industry, sustainable agricultural production, and agri-food, including the critical evaluation of research results. It aims to develop decision-making abilities in research topics or industrial production issues. All of the above are studied in-depth, often with collaboration between multiple students (1-4 students per Undergraduate Thesis topic), with the necessary degree of specialization and investigation of the potential practical application of the research. This ensures that the student is capable of solving complex problems that may arise and independently developing research and innovation by combining prior knowledge.

TEACHING AND LEARNING METHODS - EVALUATION

TEACHING MODE	Conducting research with physical presence in the department's laboratories and/or collaborating entities (research organizations, food-nutrition businesses), processing and presenting research data either in person or remotely.
USE OF COMPUTER SERVICES	Use of modern laboratory equipment, computers and specialized software, as well as digital presentation platforms
TEACHING ORGANISATION	

Activity	***Workload***
Study and research conducted in the laboratory or in the field	700
Data analysis and preparation for the presentation of the undergraduate thesis	50
Total Course Workload (25 hours of student workload per ECTS credit)	***750***

STUDENT EVALUATION	**Written Assignment (Undergraduate Thesis): 60%** **Presentation of the assignment (Undergraduate Thesis): 40%**

RECOMMENDED BIBLIOGRAPHY

- *www.scholar.google.com*
- *www.scopus.com*
- *https://www.researchgate.net/*
- *https://www.didaktorika.gr/eadd/*

ΟΡΓΑΝΩΣΗ ΔΙΔΑΣΚΑΛΙΑΣ	

Activity	***Semester Workload***
Data analysis and preparation for the presentation of the undergraduate thesis	50
Total Course Workload (25 hours of student workload per ECTS credit)	***750***

STUDENT EVALUATION	The evaluation language is Greek. The final grade of the course is composed of 60% from the grade of the written text of the

	Undergraduate Thesis and 40% from the grade of the oral presentation of the Undergraduate Thesis before a three-member evaluation committee. This committee consists of the supervising professor and two other members (professors from the Department or other University Departments, or members of collaborating organizations).

RECOMMENDED BIBLIOGRAPHY

- *www.scholar.google.com*
- *www.scopus.com*
- *https://www.researchgate.net/*
- *https://www.didaktorika.gr/eadd/*