**COURSE OUTLINE**

## 1. GENERAL

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| **SCHOOL** | AGRICULTURAL SCIENCES | | |
| **ACADEMIC UNIT** | FOOD SCIENCE AND TECHNOLOGY | | |
| **LEVEL OF STUDIES** | UNDERGRADUATE | | |
| **COURSE CODE** | **FST_E10** | **SEMESTER** | **Spring** |
| **COURSE TITLE** | INFORMATICS APPLICATIONS IN FOOD TECHNOLOGY | | |

| **INDEPENDENT TEACHING ACTIVITIES** *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits* | **WEEKLY TEACHING HOURS** | **CREDITS** |
|---|---|---|
| Lectures | 2 | |
| Exercises | 2 | |
| | **4** | **5** |
| *Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).* | | |

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| **COURSE TYPE** *general background, special background, specialised general knowledge, skills development* | *Elective*<br>*general background*<br>*skills development* |
| **PREREQUISITE COURSES:** | No prerequisite courses |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | No |
| **COURSE WEBSITE (URL)** | https://eclass.upatras.gr/ |

## 2. LEARNING OUTCOMES

**Learning outcomes**

*The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.*

*Consult Appendix A*

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

The aim of this course is to give students the basic knowledge of developing a PC application for the food sector.

Upon completion of this course, students will be able to:
1. understand the steps required to implement an implementation
2. express the requirements from an IT application to solve a specific problem
3. define the interface required to implement the application
4. implement the necessary functionality using appropriate software
5. explore and locate accurate information and corresponding educational material in international and Greek literature.

**General Competences**

*Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?*

*Search for, analysis and synthesis of data and information, with the use of the necessary*

*Project planning and management*

*Respect for difference and multiculturalism*

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| *technology* | *Respect for the natural environment* |
| *Adapting to new situations* | *Showing social, professional and ethical responsibility and sensitivity* |
| *Decision-making* | *to gender issues* |
| *Working independently* | *Criticism and self-criticism* |
| *Team work* | *Production of free, creative and inductive thinking* |
| *Working in an international environment* | *……* |
| *Working in an interdisciplinary environment* | *Others…* |
| *Production of new research ideas* | *…….* |

*Search for, analysis and synthesis of data and information, with the use of the necessary technology*
*Adapting to new situations*
*Decision-making*
*Working independently*
*Criticism and self-criticism*
*Production of free, creative and inductive thinking*

**3. SYLLABUS**

The course content includes the following:
1. Introduction to the methodology of implementing an IT application in the food sector
2. Analysis of requirements
3. Recording requested
4. Designing an application
5. User Interface
6. Implementation
7. Presentation of related software infrastructures (1/2)
8. Presentation of related software infrastructures (2/2)
9. Evaluation
10. Promotion actions
11. Cases involving the use of relevant information technology applications in the food sector (1/2)
12. Cases involving the use of relevant information technology applications in the food sector (2/2)
13. Material overview

**4. TEACHING and LEARNING METHODS - EVALUATION**

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| **DELIVERY**<br>*Face-to-face, Distance learning, etc.* | *Face-to-face, Hands-on experience with ICT* |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY**<br>*Use of ICT in teaching, laboratory education, communication with students* | *Lectures using Power Point presentations, suspension of educational material in eclass* |
| **TEACHING METHODS**<br>*The manner and methods of teaching are described in detail.*<br>*Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.*<br><br>*The student's study hours for each* | |

| ***Activity*** | ***Semester workload*** |
|---|---|
| Lectures | 26 |
| Exercises | 26 |
| Study and analysis of bibliography | 40 |
| Essay production | 33 |
| Course total | ***125*** |

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| *learning activity are given as well as the hours of non-directed study according to the principles of the ECTS* | |
| **STUDENT PERFORMANCE EVALUATION**<br>*Description of the evaluation procedure*<br><br>*Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other*<br><br>*Specifically-defined evaluation criteria are given, and if and where they are accessible to students.* | It will be based on the following criteria (combined or not) depending on the number of students participating in the course.<br>• Written exam at the end of the semester with development questions, short answer questions and / or multiple-choice questions, or a combination of the above<br>• Project evaluation |

**5. ATTACHED BIBLIOGRAPHY**


Βιβλίο [68378511]: Αναπτυξη Πληροφοριακών Συστημάτων, David Avison, Guy Fitzgerald
Βιβλίο [59392916]: Προγραμματισμός Στατικών και Δυναμικών Ιστοσελίδων
Βιβλίο [320036]: ΔΙΔΑΚΤΙΚΗ ΤΗΣ ΠΛΗΡΟΦΟΡΙΚΗΣ, ΣΤΥΛΙΑΡΑΣ ΓΕΩΡΓΙΟΣ