COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	SCHOOL OF ECONOMICS, BUSINESS & INTERNATIONAL STUDIES		
DEPARTMENT	TOURISM STUDIES		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE UNIT CODE	**TSK104**	**SEMESTER**	**1st**
COURSE TITLE	INTRODUCTION TO INFORMATICS		

INDEPENDENT TEACHING ACTIVITIES *in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits*	**WEEKLY TEACHNG HOURS**	**CREDITS**
Lectures	2	5
Laboratory exercises	3	
Add rows if necessary. The organization of teaching and the teaching methods used are described in detail under section 4		

COURSE TYPE *Background knowledge, Scientific expertise, General Knowledge, Skills Development*	BACKGROUND KNOWLEDGE
PREREQUISITE COURSES:	NO
LANGUAGE OF INSTRUCTION:	GREEK
LANGUAGE OF EXAMINATION/ASSESSMENT:	GREEK
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES
COURSE WEBSITE (URL)	https://eclass.unipi.gr/courses/TOY152/ (for the theoretical part of the course) https://eclass.unipi.gr/courses/TOY109/ (for the laboratory part of the course)

(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*

The purpose of the course is to teach the basic principles of computing and information systems and informatics, as well as to give students a high level of familiarity with the Microsoft Word for Windows text editor for writing demanding and complex texts, the use of Microsoft Windows and internet surfing.

On completion of the course students will be able to:

- Understand the basic concepts of informatics and directly implement processes that cover the entire spectrum of computer science, without needing prior knowledge of the subject;
- Grasp the benefits of information technology;
- Have a high level of familiarity with Windows and internet surfing;
- Have competence in using the Microsoft Word for Windows text editor;
- Write demanding and complex texts using Word.

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

Search for, analysis and synthesis of data and *Project planning and management*

information by the use of appropriate technologies, *Adapting to new situations* *Decision-making* *Individual/Independent work* *Group/Team work* *Working in an international environment* *Working in an interdisciplinary environment* *Introduction of innovative research*	*Respect for diversity and multiculturalism* *Environmental awareness* *Social, professional and ethical responsibility and sensitivity to gender issues* *Critical thinking* *Development of free, creative and inductive thinking* *……* *(Other…….citizenship, spiritual freedom, social awareness, altruism etc.)* *……*
Search for, analysis and synthesis of data and information by the use of appropriate technologies Individual/Independent work Group/Team work Working in an interdisciplinary environment Decision-making	

(3) COURSE CONTENT

Theory: Concept of informatics, Informatics sectors, Informatics autonomy, Limitations and risks of informatics, Evolution of information technology, Computer systems organization (binary system, logic gates and circuits, Von Neumann architecture), Computer hardware (I/O and storage units), Computer software (Concepts of algorithm and programming), Creative software packages, Computer graphics and multimedia, Networks and internet, Artificial intelligence.

Workshops: Demonstration of the basic features of Microsoft Windows and internet surfing. Processing of simple and complex texts with the use of Microsoft WORD for Windows, so that students are able to create complex documents. Emphasis is given on formatting procedures, tables and organization charts.

(4) TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY *Face-to-face, in-class lecturing, distance teaching and distance learning etc.*	FACE TO FACE
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY *Use of ICT in teaching, Laboratory Education, Communication with students*	Use of ICT in Teaching and Laboratory Education Use of ICT in Communication with students: - Course's e-learning platform (messages, announcements) - E-mails
COURSE DESIGN *Description of teaching techniques, practices and methods:* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc.* *The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.*	
STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS *Detailed description of the evaluation procedures:* *Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation,*	The evaluation is conducted in Greek. The assessment methods that are used are Short Answer Questions, Problem Solving, Oral Laboratory Examination. The grade is determined by 100% from the final examination. Initially, the laboratory is examined with a score of success or failure. Students who successfully complete the examination of the laboratory are eligible to participate in the examination of the theoretical part.

Activity/Method	***Semester workload***
Lectures	26
Laboratory practice	39
Self-study	85
Examination of Laboratory part of the course	0,5
Examination of Theoretical part of the course	1,5
Total	**152 hours**

laboratory work, other……etc. *Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.*	

(5) SUGGESTED BIBLIOGRAPHY:

-*Suggested bibliography:*

Behrouz, F.A. (2011). Introduction to Computer Science, Kleidarithmos, Athens. (In Greek)

Bozanis, P.D. (2016). Introduction to Informatics and Computers, Tziolas. (In Greek)

Sfakianakis, M. (2003). Introduction to Informatics Thinking, Kleidarithmos, Athens. (In Greek)

Brookshear, J.G. and Brylow, D. (2019). Computer Science. An Overview, 13th Edition, Pearson Education.

White, R. (2015). How Computers Work: The Evolution of Technology, 10th Edition, Que.

- *Relevant scientific journals:*

Computer Science Review, Elsevier

Information Sciences, Elsevier

Journal of Computational Science