Μ.ΔΙ.Π.
ΔΗΜΟΚΡΙΤΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΡΑΚΗΣ

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Sciences		
ACADEMIC UNIT	Department of Informatics		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	719SKEC	**SEMESTER**	7th
COURSE TITLE	Law and Ethics of Computing		

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	5
Tutorial Exercises	1	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Specialized General Knowledge, Skills Development
PREREQUISITE COURSES:	-
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO
COURSE WEBSITE (URL)	

(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 course aims to provide students with a comprehensive understanding of the institutional, legal, and ethical frameworks that govern the development, implementation, and use of digital technologies in contemporary society. It focuses on fundamental principles related to privacy protection, personal data processing, intellectual property, cybersecurity, professional responsibility in computing, and regulatory compliance with both European and national legislation. In parallel, it explores ethical challenges arising from the advancement and application of technologies such as artificial intelligence, autonomous systems, bioinformatics, surveillance tools, and algorithmic discrimination.

Upon successful completion of the course, students will be able to:

- Identify and describe the core legal frameworks that govern information technology,

including GDPR, intellectual property rights, cybercrime legislation, and cybersecurity policies.
- Interpret and apply key ethical theories (e.g., deontology, utilitarianism, rights-based ethics) to analyze real-world technological dilemmas.
- Examine issues related to the design and deployment of artificial intelligence systems, emphasizing social justice, fairness, transparency, and accountability.
- Synthesize legal and technical reasoning to assess the compliance of a system or practice with ethical and legal standards.
- Formulate well-supported arguments and recommendations for the responsible and sustainable development of digital technologies, taking into account societal needs and users' rights.

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

Search for, analysis and synthesis of data and information, with the use of the necessary technology
Working independently
Team work
Generation of new research ideas

(3) SYLLABUS

1. Introduction to Ethics and Law in Computing
2. Legal and Ethical Frameworks in the Digital Era
3. Personal Data Protection and the General Data Protection Regulation (GDPR)
4. Intellectual Property, Software Licensing, and Digital Content Rights
5. Cybercrime and Electronic Evidence
6. AI Regulation and Emerging Legal Norms
7. Algorithmic Bias and Discrimination
8. Ethical Dilemmas in the Development and Use of Artificial Intelligence
9. Autonomous Systems and Legal Responsibility
10. Digital Surveillance and Monitoring in Everyday Life
11. Social Justice, Algorithms, and Digital Exclusion
12. Professional Ethics and Codes of Conduct in Information Technology

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face-to-face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education,*	Learning process support through the moodle online platform (interaction, assignments, auxiliary material) Announcements via central department website

<table>
<tr><td>communication with students</td><td>Use email to communicate.</td></tr>
<tr><td>TEACHING METHODS
The manner and methods of teaching are described in detail.
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.

The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</td><td>
<table>
<tr><th>Activity</th><th>Semester workload</th></tr>
<tr><td>Lectures</td><td>26x2=52</td></tr>
<tr><td>Tutorial Exercises</td><td>13x2=26</td></tr>
<tr><td>Team project</td><td>25</td></tr>
<tr><td>Independent Study</td><td>25</td></tr>
<tr><td></td><td></td></tr>
<tr><td>Course total</td><td>128</td></tr>
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</td></tr>
<tr><td>STUDENT PERFORMANCE EVALUATION
Description of the evaluation procedure

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

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</td><td>Final Grade = Final Exam Grade (50%) + Team Project Presentation (50%)</td></tr>
</table>

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:
- Related academic journals:

- Mitrou, L. (2002). Law in the Information Society. Athens: Sakkoulas Publications. ISBN: 978-960-301-664-0.
- Murray, A. (2023). Information Technology Law: The Law and Society (5th edn). Oxford University Press. https://doi.org/10.1093/he/9780192893529.001.0001.
- Zekos, G. I. (2017). Internet, Computers & Telecommunications in Greek Law. Athens: Sakkoulas Publications. ISBN: 978-960-568-741-0.
- Giannopoulos, G. N. (2018). Introduction to Legal Informatics. Athens: Nomiki Vivliothiki (Legal Library). ISBN: 978-960-622-128-6.