COURSE OUTLINE

(1) GENERAL

SCHOOL	Science and Technology		
ACADEMIC UNIT	Science and Technology		
PROGRAMME OF STUDIES	MSc in Data Science		
LEVEL OF STUDIES	Postgraduate		
COURSE CODE	CE01	SEMESTER	1
COURSE TITLE	Legal and Ethical Foundations of Privacy and Security		
COURSE TYPE *Elective, compulsory*	Compulsory		
INSTRUCTOR(S)	Theory: Dr. Maria MILOSSI		

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
	3	6
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

TEACHING ACTIVITIES BREAKDOWN	WEEKLY HOURS
Theory	3
Recitation	
Lab	

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*	Special background
PREREQUISITE COURSES:	-
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	English
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes
COURSE WEBSITE (URL)	https://elearn-ucips.ihu.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*

On completing the course, the student will be able to:

- Identify potential legal and ethical issues regarding privacy and security in digital world
- Understand several issues concerning digital property and intellectual property 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
- Teamwork
- Working in an international environment
- Production of free, creative, and inductive thinking

(3) SYLLABUS

Information security management entails a multitude of legal and ethical issues. Whether for individuals or organisations, information is often sensitive and valuable, therefore information access and usage of such an asset should follow a set of rules and regulations that protect the privacy and safety of their owners. This course also discusses the impact of ICT on the substantive law of Europe, and analyses the socio-legal effects of regulatory structures on the development of the Internet community. It eventually aims to explain basic legal and ethical issues and principles, according to European law and regulations.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Hybrid: Face to face and synchronous distance learning
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	**Use of ICT in Teaching** The hybrid teaching method involves synchronous learning with the support of the videoconferencing tool Zoom. Students are taught a variety of tools related to the course content and material. **Use of ICT in Communication with students** • The course material (slides, scientific articles, exercises, etc.) is posted on the course page at the e-learn platform (Moodle). • Use of Moodle Forums announcements. • Live video meetings via Zoom. • Contact via email.
TEACHING METHODS	*Activity* | *Semester workload*

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<tr>
<td>The manner and methods of teaching are described in detail.
Lectures, recitation, 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><td>Lectures</td><td>30 hrs.</td></tr>
<tr><td>Recitation</td><td></td></tr>
<tr><td>Lab</td><td></td></tr>
<tr><td>Project</td><td></td></tr>
<tr><td>Exams</td><td>3 hrs.</td></tr>
<tr><td>Non-Directed Study</td><td></td></tr>
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<tr><td></td><td></td></tr>
<tr><td>Course total</td><td>33 hrs.</td></tr>
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<td>COURSE MATERIAL ARRANGEMENT</td>
<td>
Theory/Recitation
<table>
<tr><td>Introduction to Computers, Cyberspace and Internet Technology: How they developed and what role they play in modern society</td><td>1 hr.</td></tr>
<tr><td>Cybersecurity; The Greek National Cybersecurity Strategy; The NIS Directive</td><td></td></tr>
<tr><td>Data Governance; Information Systems' Interoperability; Big Data</td><td>5 hrs.</td></tr>
<tr><td>Privacy & Surveillance: Online Privacy, surveillance; Data Protection and Data Security;</td><td>4 hrs.</td></tr>
<tr><td>General Data Protection Regulation; LED Directive; E- Privacy Directive;</td><td>5 hrs.</td></tr>
<tr><td>Intellectual Property Rights: Copyright in computer software; Patenting software applications; Trade Marks and Domain Names, internet keyword searches and trade marks</td><td>3 hrs.</td></tr>
<tr><td>Artificial Intelligence and Ethics_Case studies (Smart Policing, FRT, Digital Health, Digital Justice, Autonomous Vehicles), European Guidelines of Trustworthy AI</td><td>3 hrs.</td></tr>
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<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>Language of Evaluation: English

Evaluation Procedure:
● Oral Exams (70%). Methods of evaluation:
○ Open-ended questions
○ Problem solving
● Group project (30%):
○ Coursework
The evaluation procedure is announced to the students during the first lecture and is also accessible at the e-learn platform throughout the entire semester.</td>
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<td>STUDENT OBLIGATIONS
Compulsory attendance of lectures, labs, recitations, compulsory participation in midterms, exams, compulsory delivery of homework, projects, etc.</td>
<td>● Compulsory attendance of lectures
● Compulsory participation in the exams
● Compulsory delivery of coursework</td>
</tr>
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(5) ATTACHED BIBLIOGRAPHY

1. BRIDGING THE RURAL DIGITAL DIVIDE, OECD DIGITAL ECONOMY PAPERS, February 2018, No. 265
2. RAISING AWARENESS OF CYBERSECURITY, A Key Element of National Cybersecurity Strategies, ENISA, November 2021
3. What if we all governed the Internet? Advancing multistakeholder participation in Internet Governance, UNESCO, 2017
4. Greek National Cybersecurity Strategy
5. The Cybersecurity Act, EU
6. The General Data Protection Regulation, 2016/679 EU
7. The Law Enforcement Directive, 2016/680 EU
8. ETHICS GUIDELINES FOR TRUSTWORTHY AI, INDEPENDENT

HIGH-LEVEL EXPERT GROUP ON ARTIFICIAL INTELLIGENCE SET UP BY THE EUROPEAN COMMISSION