SYLLABUS OF A MODULE

Polish name of a module	**ASPEKTY BEZPIECZEŃSTWA DANYCH**
English name of a module	**Data security aspects**
ISCED classification - Code	0612
ISCED classification - Field of study	*Database and network design and administration*
Languages of instruction	*English*
Level of qualification: ***1 – BSc (EQF 6)*** ***2 – MSc (EQF 7)*** ***3 – PhD (EQF 8)***	*2*
Number of ECTS credit points	*3*
Examination: ***EO – exam oral*** ***EW – exam written*** ***A - assignment***	*EW*
Available in semester: ***S – Spring only*** ***A – autumn only*** ***Y - booth***	*A*

Number of hours per semester:

Lecture	Exercises	Laboratory	Seminar	E-learning	Project
15	0	0	15	0	0

MODULE DESCRIPTION

MODULE OBJECTIVES

O1. Familiarizing students with the technological, social, and psychological aspects of data security.

O2. Acquisition by students of practical skills in conducting research and expanding knowledge in the chosen field.

O3. Developing in students an awareness of the importance of non-technical aspects and consequences of engineering activities.

PRELIMINARY REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Ability to gather information from various sources, integrate it, and draw conclusions.

LEARNING OUTCOMES

LO 1 – The student has knowledge of data security in technological, social, and psychological aspects, and possesses organized, theoretically grounded knowledge including methods of conducting scientific research.

LO 2 – The student can acquire information from literature, databases, and other sources; can integrate obtained information, interpret it, draw conclusions, formulate and justify opinions, and has the ability to conduct scientific research.

LO 3 – The student is aware of the importance of non-technical aspects and the consequences of engineering activities, including their impact on the environment, and the related responsibility for decisions made.

MODULE CONTENT

Type of classes – lecture	**Number of hours**
Lec 1 - Introductory lecture	**1**
Lec 2 - Critical infrastructure	**1**
Lec 3 - Data security and national security	**1**
Lec 4 - Technological aspects of network security – infection and device takeover	**1**
Lec 5 - "Big Brother is Watching" – does privacy exist online?	**1**
Lec 6 - The cyber-parents and cyber-children generation	**1**
Lec 7 - Teenagers 3.0	**1**
Lec 8 - Social media	**1**
Lec 9 - Manipulation of society	**1**
Lec 10-11 - Disinformation	**2**
Lec 12 - Cyberbullying – types, effects, and victim support.	**1**
Lec 13 - Internet and technology addiction, FOMO	**1**
Lec 14 - Legal aspects of cybersecurity	**1**
Lec 15 - Data security in the metaverse	**1**
Sum	**15**
Type of classes– seminar.	**Number of hours**
S 1 - Assignment of tasks, division into research teams, establishing conditions	**1**
S 2 - Critical infrastructure	**1**
S 3 - Data security and national security	**1**
S 4 - Technological aspects of network security – infection and device takeover	**1**
S 5 - "Big Brother is Watching" – does privacy exist online?	**1**
S 6 - The cyber-parents and cyber-children generation	**1**
S 7 - Teenagers 3.0	**1**
S 8 - Social media	**1**
S 9 - Manipulation of society	**1**
S 10-11 - Disinformation	**2**
S 12 - Cyberbullying – types, effects, and victim support.	**1**
S 13 - Internet and technology addiction, FOMO	**1**
S 14 - Legal aspects of cybersecurity	**1**
S 15 - Data security in the metaverse	**1**
Sum	**15**

TEACHING TOOLS

1. - Lecture using multimedia presentations, possibility of conducting classes in e-learning mode
2. - Seminars, possibility of conducting classes in e-learning mode
3. - Literature, online sources
4. - PCz e-learning platform

WAYS OF ASSESSMENT (F – FORMATIVE, S – SUMMATIVE

F1. - assessment of preparation for seminars
F2. - assessment of activity during classes

S1. - assessment verifying the ability to conduct research and acquire knowledge on a given topic (written test) *

*) in order to receive a credit for the module, the student is obliged to attain a passing grade in all laboratory classes as well as in achievement tests.

STUDENT'S WORKLOAD

L.p.	Forms of activity	Average number of hours required for realization of activity
1.	**Contact hours with teacher**	
1.1	Lectures	15
1.2	Tutorials	0
1.3	Laboratory	0
1.4	Seminar	15
1.5	Project	0
1.6	Examination	0
	Total number of contact hours with teacher:	30
2.	**Student's individual work**	
2.1	Preparation for tutorials and tests	0
2.2	Preparation for laboratory exercises, writing reports on laboratories	0
2.3	Preparation of project	0
2.4	Preparation for final lecture assessment	25
2.5	Preparation for examination	0
2.6	Individual study of literature	20
	Total number of hours of student's individual work:	45
	Overall student's workload:	75
Overall number of ECTS credits for the module		3 ECTS
Number of ECTS points that student receives in classes requiring teacher's supervision:		1.2 ECTS
Number of **ECTS** credits acquired during practical classes including laboratory exercises and projects:		0.0 ECTS

BASIC AND SUPPLEMENTARY RESOURCE MATERIALS

1. P. Wallace - The Psychology of the Internet, Cambridge University Press, 2015.
2. J. Suler - The Online Disinhibition Effect, July 2004 Cyberpsychology & behavior: the impact of the Internet, multimedia and virtual reality on behavior and society 7(3):321-6, DOI:10.1089/1094931041291295
3. M. Aitken - The Cyber Effect. A Pioneering Cyberpsychologist Explains How Human Behaviour Changes Online, Hodder & Stoughton, 2017, ISBN: 9781473610231
4. P.W. Singer, A. Friedman - Cybersecurity and Cyberwar. What everyone needs to know, Oxford University Press, 2014, ISBN: 9780199918119
5. Siedlecka-Lamch O., Legal and technical considerations for medical data in hybrid database system, Smart Ethics in the Digital World, Universidad de La Rioja, pages 213-216, 2024

6.	M.M.Cruz-Cunha, N.R. Mateus-Coelho - Handbook of Research on Cyber Crime and Information Privacy, VOL 1, Information Science Reference, 2020, ISBN-10 : 1668433028, ISBN-13: 978-1668433027
7.	https://cyberpolicy.nask.pl/wp-content/uploads/2019/10/Cybersecurity-AD-2018.-Strategic-and-legal-aspects-of-cybersecurity-and-emerging-technologies_en.pdf

MODULE COORDINATOR (NAME, SURNAME, E-MAIL ADDRESS)

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