GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Social Aspects of Information Technology - Seminar, PG_00047445
Field of study	Electronics and Telecommunications

Date of commencement of studies	February 2025	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	Optional subject group Humanistic-social subject group
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	English
Semester of study	1	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment

Conducting unit	Department of Metrology and Optoelectronics -> Faculty of Electronics, Telecommunications and Informatics

Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marcin Gnyba
	Teachers	prof. dr hab. inż. Małgorzata Szczerska dr hab. inż. Marcin Gnyba

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	15.0	15
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	15	1.0	9.0	25

Subject objectives	Development of knowledge, skills and attitudes of students in the domain of influence of information technologies on environment and society in the socjological, medical, legal and cultural aspects.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student is able to collect information on the impact of information technologies on the environment and society as part of cooperation in a student group and correctly present them	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student is aware of the importance of non-technical aspects and effects of engineering activities, including the impact of electronic and telecommunications devices on the environment and society.	[SK2] Assessment of progress of work
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student has basic knowledge in the field of history, telecommunications and computer science, cybercrime, ethical aspects of the use of information techniques, personal data security, medical and economic aspects as well as socio-cultural electromagnetic radiation.	[SW1] Assessment of factual knowledge

Subject contents	The history of communication technologies development and their impact on the evolution of civilization. Health aspects of thermal effect induced by electromagnetic radiation. Benefits and risks for the psyche of human being associated with the information technologies. Does media integrate people? Does media give rise to strengthen people-to people links? Computer related crimes. Soft skills and digitized workplace.
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		50.0%	100.0%

Recommended reading	Basic literature	Carr N.: *The Shallows: What the Internet Is Doing to Our Brains* (2010, W. W. Norton) ISBN 978-0-393-07222-8 Bryx M.: Historia radia w Polsce. http//www.historiaradia.pl Kalisz J.: Szkodliwe pole elektromagnetyczne. Przyjaciel przy pracy 5/1993, str. 16-18, 6/1993, str. 16-17, 7-8/1993, str. 24-25 Martin Blank, Overpowered: The Dangers of Electromagnetic Radiation (EMF) and What You Can Do about It, **ISBN-13:** 978-1609806200, **ISBN-10:** 1609806204, Seven Stories Press Mikołajczyk M.: Kryteria biologiczno-lekarskie dopuszczalnych natężeń pól elektromagnetycznych. VIII Krajowe Sympozjum Nauk Radiowych, Wrocław 1996, str. 281-285. Goodman M.: Future Crimes, Knopf Doubleday Publishing Group, 2015, Castells M.: Rise of the Network Society,John Willey & Sons 2009
	Supplementary literature	Given during lectures.
	eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	Internet and mobile devices
	Vision of the Internet of Things
	Surveillance as an internet business model
	"Artificial grass sowing" - astroturfing
	Threats to privacy
	Internet monitoring and surveillance of Internet users by state and international institutions
	Internet threats for minors
	Shortcomings of telephone operating systems
	Mobile payments
	Bitcoin - new opportunities and threats
	Internet content protection by copyright
	Censorship on the Internet
	Quote right and Creative Commons license
	Access to and dissemination of proprietary information (Wikileaks)
	Innovations
	Problems and legal regulations regarding the use of drones.
	Criminal use of location data
	Threats resulting from 3D printing technology
	Social aspects of using artificial intelligence
	A car without a driver - development perspectives
	Development of electricity sources, social aspect
	History
	The history of development of communication techniques and their impact on the development of civilization
	Polish code breakers - discuss the fate of Polish mathematicians: Jan Kowalewski, Stefan Mazurkiewicz, Wacław Sierpiński, Stanisław Leśniewski and the impact of their activities on the fate of the world.
	Jan Szczepanik - Polish television pioneer - discuss the activities of the Polish inventor and his influence on the development of technology.
	Dr. David Parkinson - the creator of flight radio direction finder - the role of the invention in the field of defense and security.
	The real price of a cell - about the construction, construction process and social aspects of mobile device production.
	Martin Cooper - the creator of the mobile phone - discuss the history of the creation of a mobile phone and its impact on the modern world.
	Nobotushi Kihara - the creator of the walkman - discuss the history of the creation of portable music players and their impact on personal contact with music.
	Jacek Karpiński - creator of the K-202 computer - about the development of the hardware and software layer of computers in Poland and in the world.
	Jack Tramiel - creator of Atari - about the construction, construction and development of consoles and video games.
	Edward Snowden - whistleblowers in a network society
	cybercrime
	Interpretation of computer crime by Polish and foreign law enforcement agencies.
	Polish and foreign legal regulations describing computer crimes and ways of prosecuting them.
	The most common methods of making computer crimes.
	Environment
	Health aspects of the effect of thermal electromagnetic radiation
	The impact of the computer on the user, psychological aspects
	A man immersed in virtual reality
	Psychological aspects of the use of information technologies
	Internet addiction
	Negative psychological aspects of the use of technology information.
	Positive psychological aspects of the use of technology information.
	Does the use of information technology strengthens interpersonal relations?
Work placement	Not applicable

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