



## Subject card

Subject name and code	, PG_00036954						
Field of study	Environmental Engineering, Engineering and Technologies of Energy Carriers, Green Technologies, Green Technologies						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			English		
Semester of study	3	ECTS credits			3.0		
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		prof. dr hab. inż. Małgorzata Szczerska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	15.0	30
	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	30		0.0		0.0	30
Subject objectives	The development of social competence of students related to the assessment of the aspects for modern information technology.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student possesses a foundational knowledge of history, telecommunications, computer science, cybercrime, the ethical implications of information technology, personal data security, and the medical, economic, social, and cultural aspects and effects of electromagnetic radiation.			[SW1] Assessment of factual knowledge		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student possesses the ability to evaluate and interpret the environmental and societal implications of information technology.			[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 recognizes the significance of the broader societal and environmental implications of engineering, particularly in relation to electronic and communication devices.			[SK2] Assessment of progress of work		
Subject contents	Lectures and seminars related to the impact of information technologies on society in the following aspects: sociological (changes in social behaviour), anthropological (how technology affects the cultural aspects of life), medical (impact on the health of living beings), legal (cybercrimes), ethical (internet ethics), psychological (the impact of technology on the psyche of users, employments).						
Prerequisites and co-requisites	Lack of initial requirements.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Assessment of presentation		50.0%		50.0%		
	Colloquium		50.0%		50.0%		

Recommended reading	Basic literature	<p>Carr N.: Płytki umysł. Jak internet wpływa na nasz mózg. Wydawnictwo HELION, 2013.</p> <p>Bryx M.: Historia radia w Polsce <a href="http://www.historiaradia.neostrada.pl">http://www.historiaradia.neostrada.pl</a></p> <p>Kalisz J.: Szkodliwe pole elektromagnetyczne. Przyjaciel przy pracy. 5/1993, s. 16-18, 6/1993, s.16-17, 7-8/1993, s. 24-25.</p> <p>Mikołajczyk M., Kameduła M., Kameduła T.: Kryteria biologiczno-lekarskie dopuszczalnych natężeń pól elektromagnetycznych. VIII Krajowe Sympozjum Nauk Radiowych, Wrocław 1996, s. 281-285.</p> <p>Castells M.: Społeczeństwo sieci, PWN, Warszawa 2007.</p> <p>Goleman D.: Inteligencja emocjonalna w praktyce. Wyd. Media Rodzina, Poznań, 1999</p> <p>Pervin L.A.: Psychologia osobowości. Gdańskie Wydawnictwo Psychologiczne, Gdańsk, 2006.</p> <p>Morawski R. Z.: Etyczne aspekty działalności badawczej w naukach empirycznych. Wydawnictwo Uniwersytetu Warszawskiego, Warszawa, 2011.</p> <p>Kosiński J.: Przystępczość teleinformatyczna, Wydawnictwo Wyższej Szkoły Policji w Szczytnie, Szczytno 2015.</p> <p>Goodman M.: Zbrodnie przyszłości. Helion, 2016.</p>
	Supplementary literature	Does not exist.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<p>Example of lecture topics :</p> <p>The history of telecommunications</p> <p>the history of informatics</p> <p>The history of electronics</p> <p>Soft skills and digitized workplace</p> <p>The network society</p> <p>Cybercrimes</p> <p>Electromagnetic radiation in the following aspects: medical, economical, sociological and cultural</p> <p>Ethical issues implied by information technologies</p> <p>Social aspects of applying IT</p> <p>Rules of effective work in a team</p> <p>Negotiations as the component of work in a IT project</p>	

Work placement	Not applicable
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