



Subject card

Subject name and code	Social Aspects of Information Technologies, PG_00053737						
Field of study	Chemical Technology, Civil Engineering, Chemistry, Technical Physics, Environmental Engineering, Electrical Engineering, Power Engineering, Electronics and Telecommunications, Biotechnology, Geodesy and Cartography, Biomedical Engineering, Electronics and Telecommunications, Chemistry in Construction Engineering, Biomedical Engineering, Biomedical Engineering, Nanotechnology, Spatial Development, Engineering and Technologies of Energy Carriers, Corrosion, Nanotechnology, Automation, Robotics and Control Systems, Green Technologies, Green Technologies, Spatial Development, Power Engineering, Power Engineering						
Date of commencement of studies	February 2022	Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
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		dr hab. inż. Marcin Gnyba				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	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	2.0	18.0	50		
Subject objectives	The development of knowledge, skills and attitudes of students related to the assessment of influence of information technologies on environment and society in medical, legal, sociological and cultural aspects.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[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	Is aware of the importance of non-technical aspects and effects of engineering activities, including the impact of electronic and communication devices on the environment and society.			[SK2] Assessment of progress of work		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	He can collect information on the impact of information technologies on the environment and society and correctly interpret them.			[SU2] Assessment of ability to analyse information		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	Has basic knowledge of history, telecommunications and computer science, cybercrime, ethical aspects of the use of information technology, personal data security, aspects and effects of medical, economic and socio-cultural electromagnetic radiation.			[SW1] Assessment of factual knowledge		
Subject contents	The history of communication technologies development and the impact for the evolution of civilization. Health aspects of thermal effect included by electromagnetic radiation. Benefits and risks for the psyche of human being associated with the information technologies. Does media give rise to strengthen people-to-people links?						
Prerequisites and co-requisites	Lack of initial requirements						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	colloquium	50.0%			100.0%		

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. http://www.historiaradia.pl</p> <p>Kalisz J.: Szkodliwe pole elektromagnetyczne. Przyjaciel przy pracy 5/1993, str. 16-18, 6/1993, str. 16-17, 7-8/1993, str. 24-25</p> <p>Mikołajczyk M.: Kryteria biologiczno-lekarskie dopuszczalnych natężeń pól elektromagnetycznych. VIII Krajowe Sympozjum Nauk Radiowych, Wrocław 1996, str. 281-285.</p> <p>Goodman M.: Zbrodnie przyszłości. Jak cyberprzestępcy, korporacje i państwa mogą używać technologii przeciwko tobie. Wydawnictwo Helion, 2016.</p> <p>Castells M.: Społeczeństwo sieci. Warszawa PWN, 2007.</p>
	Supplementary literature	Literature given on lectures.
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>Cloud computing - identify the advantages and disadvantages of this technology. Advantages and disadvantages of a networked society. Give definitions and examples of activities classified as cybercrime. Give examples of direct effects of electromagnetic radiation on the human body. Give examples of a common optical communication solution used before the 20th century. The basic virtues of journalism and their role in practicing the profession of journalism in an ethical manner. Examples of netiquette recommendations concerning electronic letters</p>	
Work placement	Not applicable	