



Subject card

Subject name and code	Social Aspects of Modern Technology, PG_00071022						
Field of study	Mathematics						
Date of commencement of studies	October 2025	Academic year of realisation of subject				2025/2026	
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery				e-learning	
Year of study	1	Language of instruction				English	
Semester of study	2	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Optoelectronics -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marcin Gnyba					
	Teachers	dr hab. inż. Marcin Gnyba					
Lesson types	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: 30.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=2780						
	Additional information: on-line lecture 30 h						
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	Developing students knowledge and social competences in the field of the impact of information technologies on the environment and society in sociological, medical, legal and cultural aspects.						
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 has basic knowledge of history, telecommunications and information technology, cybercrime, ethical aspects of using information technology, personal data security, as well as medical, economic and sociocultural 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	Can collect information on the impact of information technology on the environment and society as part of cooperation in a student group and present it correctly.			[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		

Subject contents	<p>Course content – lecture</p> <p>The origin and history of the development of selected modern technologies and their impact on the development of civilization. Network society. Health aspects of selected ITs (e.g. games, virtual reality) and electromagnetic radiation. Benefits and threats to the human psyche related to the use of IT. The ways in which the media integrate society and strengthen social ties. Criminological and legal issues related to the development of modern technologies. Influence of modern technologies on economy (e-commerce, cryptocurrencies, impact of other selected technologies) and society (administration, education etc.). Soft skills and IT in the digital work environment.</p>								
Prerequisites and co-requisites									
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 474 790 501">Subject passing criteria</th> <th data-bbox="802 474 1136 501">Passing threshold</th> <th data-bbox="1141 474 1474 501">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 508 790 535">test</td> <td data-bbox="802 508 1136 535">50.0%</td> <td data-bbox="1141 508 1474 535">100.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	test	50.0%	100.0%		
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Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<ol style="list-style-type: none"> 1. Castells M.: Rise of the Network Society. John Wiley & Sons, 2009 2. Carr N.:The Shallows: What the Internet Is Doing to Our Brains, W.W. Norton 2011 3. Kremling J., Sharp Parker A. M.: Cyberspace, Cybersecurity, and Cybercrime SAGE Publications, Inc; 1st edition 2017 4. Spinello R. A.: Cyberethics: Morality and Law in Cyberspace: Jones & Bartlett Learning; 7th edition, 2020 <p>No predefined list.</p>							

<p>Example issues/ example questions/ tasks being completed</p>	<p>The vision of the Internet of Things in economy and society</p> <p>Surveillance as a business model of the Internet.</p> <p>Privacy risks.</p> <p>Internet monitoring and surveillance of Internet users by state and international institutions.</p> <p>Internet threats to minors.</p> <p>Cryptocurrencies new opportunities and threats.</p> <p>Copyright protection of Internet content.</p> <p>Internet censorship.</p> <p>Right to quote and Creative Commons license</p> <p>Access to and Dissemination of Proprietary Information.</p> <p>Innovations.</p> <p>Problems and legal regulations regarding the use of drones.</p> <p>Criminal use of location data.</p> <p>Benefits and risks of 3D printing technology.</p> <p>Social aspects of using artificial intelligence.</p> <p>Driverless car - prospects for development.</p> <p>Development of electricity sources, social aspect.</p> <p>The origin and history of the development of selected devices and technologies and their impact on the development of civilization.</p> <p>Whistleblowers in the network society</p> <p>Interpretation of computer crime by Polish and foreign law enforcement agencies.</p> <p>Legal regulations describing computer crimes and ways of prosecuting them.</p> <p>The most common methods of committing computer crimes.</p> <p>Health aspects of the impact of electromagnetic radiation</p> <p>The influence of the computer on the user, psychological aspects.</p> <p>A man immersed in virtual reality.</p>
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	Psychological aspects of using information technologies. Does the use of information technology strengthen interpersonal relationships?
Practical activities within the subject	Not applicable

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