



Subject card

Subject name and code	Information Society Technologies, PG_00071020						
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				Polish	
Semester of study	2	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Radiocommunication Systems and Networks -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Sławomir Gajewski					
	Teachers	dr inż. Sławomir Gajewski					
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 addresses: Moodle ID: 4046 Technologie społeczeństwa informacyjnego (ONLINE) luty 2026 https://enauczanie.pg.edu.pl/2025/course/view.php?id=4046						
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 course aims to prepare the student to use advanced information technology paradigms in society.						
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 can present security issues of systems belonging to the global information infrastructure, is able to classify them, as well as present the weaknesses of the systems.			[SU3] Assessment of ability to use knowledge gained from the subject		
	[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 able to apply chances and threats from the use of AI in the global information society.			[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student is able to discuss GII implementation scenarios. The student presents the GII implementation model by ITU recommendations.			[SW1] Assessment of factual knowledge		
Subject contents	<p>Course content – lecture</p> <p>Definitions and characteristics of the information society. Information society technologies and the ethics of the engineering profession - hopes and threats. Threats related to the development of information technologies - artificial intelligence, the Internet, virtual and augmented reality, virtualisation of entities, mobile technologies of the future, manipulation in the Internet network, credibility of information in the Internet network, humanoid and human-like robots. Social changes resulting from the use of AI. Features of the information society (IS), problems and threats. Psychological aspects of the development of IS. Historical aspects of the development of IS. Examples of IS development strategies, the role of knowledge, analysis of social relations, technological neutrality, and problems of legacy systems. Information technologies and the development of knowledge in the life of humanity. Predictions of scientific discoveries and characteristics of societies in the (near) future - a real vision of the world in a few, several dozen years. Evolution of telecommunications networks and quality management in the network. Global information infrastructure - assumptions, models, applications. Privacy and security issues in a computer network. Convergence of fixed and wireless networks. Convergence of computing, telecommunications and media. Streaming media. Content delivery networks. Functional properties of 5G and 6G cellular networks.</p>						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Colloquium	50.0%	50.0%
	Activity, attendance	50.0%	50.0%
Recommended reading	Basic literature	1. J. Feather, The Information Society: A Study of Continuity and Change, Facet Publishing, 2008 2. R. Rubin, Foundations of Library and Information Science, Neal-Schuman Publishers, 2010	
	Supplementary literature	none	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. The goal and principle of the implementational model of GII. 2. Characterise basic security functions in IT systems.		
Practical activities within the subject	Not applicable		

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