



Subject card

Subject name and code	Information Society Technologies, PG_00048307						
Field of study	Electronics and Telecommunications						
Date of commencement of studies	February 2027		Academic year of realisation of subject			2026/2027	
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			Polish	
Semester of study	1		ECTS credits			2.0	
Learning profile	general academic profile		Assessment form			assessment	
Conducting unit	Department of Computer Architecture -> 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: 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 aim of the course is to teach the student advanced paradigms use of information technology in society.						
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		Student presents GI scenarios in relation to wireless communication solutions, in particular 4G systems. Student presents GI implementational model according to ITU standards.		[SW1] Assessment of factual knowledge		
	[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		Student is capable of analysing relations in global information society.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		Student knows and recognizes information society development strategies. Student can compare authentication methods specific to NGN networks with the ones used in common packet networks.		[SU3] Assessment of ability to use knowledge gained from the subject		
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
		Passing the colloquium	50.0%
Recommended reading	Basic literature	J. Feather, The Information Society: A Study of Continuity and Change, Facet Publishing, 2008  R. Rubin, Foundations of Library and Information Science, Neal-Schuman Publishers, 2010	
	Supplementary literature	No requirements	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. The goal and principle of the implementational model of GII.</li> <li>2. Characterise basic security functions in IT systems.</li> </ol>		
Practical activities within the subject	Not applicable		

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