



## Subject card

Subject name and code	History of Technology and Innovation, PG_00072442						
Field of study	Materials Engineering						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2026/2027		
Education level	first-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	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Polymer Technology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Łukasz Piszczyk				
	Teachers		dr hab. inż. Łukasz Piszczyk				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	The course aims to familiarize students with technological developments and innovations and to highlight the impact of inventions and innovations on social, economic, and cultural development						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W09] Has general knowledge of humanities, social or economic sciences, covering their basics and applications.	The student has a general knowledge of the humanities, social sciences, and economics.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K6_K01] Understands the need to improve professional and personal competencies; is conscious of own limitations and knows when to turn to experts, properly establishes priorities helping to accomplish tasks defined by oneself or others.	The student is aware of their own limitations and understands the need to improve their professional and personal skills.			[SK2] Assessment of progress of work [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work		
	[K6_U12] Can apply the knowledge of humanities, social sciences or economics to problem solving.	The student knows how to apply knowledge in the humanities, social sciences, and economics.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Course content – lecture Topics: the concepts of technique, technology, and innovation; the development of civilization and technological progress; the importance of innovation for societal development; the social and ethical aspects of technological progress; future trends in technological development; analysis of selected case studies.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Pass	60.0%			100.0%		
Recommended reading	Basic literature	<ul style="list-style-type: none"><li>Basalla G., <i>Ewolucja technologii.</i></li><li>Orłowski B., <i>Historia techniki polskiej.</i></li></ul>					
	Supplementary literature	Drucker P., <i>Innowacja i przedsiębiorczość</i> , Warszawa: PWE.					

	eResources addresses	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Explain the difference between technique, technology, and innovation.</li> <li>2. Discuss the importance of green innovations for the modern economy.</li> <li>3. What are the social and ethical consequences of technological development?</li> <li>4. Give examples of technologies that have changed the modern world.</li> <li>5. Discuss the role of startups in driving technological innovation.</li> <li>6. What might be the future directions of technological development and innovation</li> </ol>	
Practical activities within the subject	Not applicable	

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