



Subject card

Subject name and code	Hypertext and hypermedia, PG_00045355						
Field of study	Data Engineering						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		English		
Semester of study	1		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Intelligent Interactive Systems -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wioleta Szwoch				
	Teachers		mgr inż. Piotr Sokolowski dr inż. Agata Kolakowska dr inż. Wioleta Szwoch				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	6.0	20.0	0.0	41
	E-learning hours included: 0.0						
	eNauczanie source addresses: Moodle ID: 1788 Hypertext and hypermedia 2025 26 https://enauczanie.pg.edu.pl/2025/course/view.php?id=1788						
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	41		2.0		32.0	75
Subject objectives	Course aims at practical knowledge and skills of hypertext and hypermedia.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U02] prepares and presents convincingly professional presentations of the results of undertaken activities, with their advanced interpretation		The student describes the basic issues of the presentation, transformation and synchronization information, describes the technologies of hypermedia, and presents its own system of acquisition and presentation of information with the use of selected technologies		[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment		
	[K6_W04] demonstrates creative and entrepreneurial activity in formulating and implementing innovative ideas		Student can arrange access to services exposed on the network. Student presents its own system of acquisition and presentation of information with the use of selected technologies.		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_W06] classifies the acquired information, assessing its usefulness in solving the formulated problems		The student describes the basic issues of the presentation, transformation and synchronization information, describes the technologies of hypermedia.		[SW1] Assessment of factual knowledge		

Subject contents	Course content – lecture 1. Introduction to Internet. 2. Languages describing of document structure. 3. HTML, 4. CSS 5. XML Logical structure and presentation 6. DTD and XML Schema languages describing documents 7. Transformation XSL 8. Formating Objects (XSL:FO) 9.Conecting content : XPath, XLink, XPointer 10. SVG		
Prerequisites and co-requisites	No requirements		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Laboratory tasks	50.0%	30.0%
	Lecture: Written test	50.0%	30.0%
	Project	50.0%	40.0%
Recommended reading	Basic literature	1. Bates, Ch.: XML in Theory and Practice, John Wiley & Sons, 2003 2. Mangano, S.: XSLT. Receptury. Helion 2007	
	Supplementary literature	w3schools.com	
	eResources addresses		
Example issues/ example questions/ tasks being completed	HTML, XML, XML Schema, XSLT,		
Practical activites within the subject	Not applicable		

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