

Subject card

Subject name and code	Programming of Internet Applications, PG_00047983							
Field of study	Informatics							
Date of commencement of studies	October 2024		Academic year of realisation of subject		2027/2028			
Education level	first-cycle studies		Subject group		Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery		at the	at the university		
Year of study	4		Language of instruction		Polish			
Semester of study	7		ECTS credits		3.0			
Learning profile	general academic profile		Assessme	sment form		exam		
Conducting unit	Department of Algorithms and Systems Modelling -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Manuszewski					
	Teachers		dr inż. Krzysztof Manuszewski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Sem		SUM
	Number of study hours	15.0	0.0	15.0	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		3.0		42.0		75
Subject objectives	The major goal is to probile applications.	prepare studen	ts to design an	d implement m	nodern, r	espons	ive and scala	able WWW and

Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_W44] knows and understands, to an advanced extent, architecture, design principles and methods of hardware and software support for local and distributed information systems, including computing systems, databases, computer networks and information applications, as well as the principles of human-computer interaction, the operation and evaluation criteria of data processing, storage and transfer methods, including computational algorithms, artificial intelligence and data mining as well as standards and methods of IT systems administration, monitoring of processes and robustness to undesirable phenomena and activities	Understands the principles and conditions related to typical web application architectures	[SW1] Assessment of factual knowledge				
	[K6_W04] knows and understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices	Is able to assessment and modify the efficiency of WWW system. Is able to use modern tools and patterns for purpose of development of WWW and mobile solutions	[SW1] Assessment of factual knowledge				
	[K6_W03] knows and understands, to an advanced extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum	knows communication protocols.	[SW1] Assessment of factual knowledge				
	[K6_U03] can design, according to required specifications, and make a simple device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment		[SU1] Assessment of task fulfilment				
Subject contents	JavaScript - native mechanism vs. object oriented mechanisms, emulation of other known mechanisms						
	Modern approach to client side code in JS, Unit tests, Libraries and frameworks (JQuery/ExtJS) Possible alternatives for Javascript Tools and solutions, E.g.Typescript, CoffeeScrit Implementation of server side logic. MVC pattern. (ASP.Net MVC)						
	Javascript on the server side: NodeJS						
	Hosted applications						
Prerequisites and co-requisites	C#, knowledge in area of HTML, HTTP						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
		40.0%	40.0%		
		60.0%	60.0%		
Recommended reading	Basic literature	JavaScript: The Good Parts, D. Crockford Pro ASP.NET MVC Framework, A. Freeman, S. Sanderson			
	Supplementary literature MSDN				
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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