

Subject card

Subject name and code	.NET Technologies, PG_00179319						
Field of study	Informatics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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 university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		6.0		
Learning profile	academic		Assessment form		exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Tomasz Borzyszkowski				
	Teachers		dr Tomasz Borzyszkowski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	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	60		0.0		0.0	60
Subject objectives	The subject is intended to: - introduce students to the object-oriented features of the C# language - introduction to practical use of Visual Studio for software development and - the basics of the ASP MVC library.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[INFL3_U07] uses advanced functionalities of operating systems, especially related to network aspects		The student is able to construct computer programs and Internet portals in .Net technology using the Visual Studio tool.		[SU2] presentation/project/paper/report		
	[INFL3_W08] has knowledge of network technologies, including basic communication protocols, security and construction of network applications		The student knows the basic constructs of the C# language and ASP MVC technology as well as basic programming paradigms		[SW2] presentation/project/paper/report		
Subject contents	1. Introduction to Visual Studio and the C# language. 2. Object-oriented programming principles in C#: defining classes and objects, hiding information in C# language classes, access modifiers, partial classes, comparing properties of structures and classes, object constructors and destructors, initialising structures, inheritance and overriding methods. 3. Programming constructs: definition of properties and indexers, static components, overloading operators. 4. Advanced techniques: attributes and reflection mechanism, delegation and event handling, serialisation. 5. Introduction to web development in ASP technology. 6. ASP MVC technology.						

Prerequisites and co-requisites	Knowledge of the basics of object-oriented programming and relational databases.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	project presentation, observation of student work	51.0%	100.0%
Recommended reading	Basic literature	S. C. Perry. C# i .NET. Helion, 2006	
		S. Walther. ASP .NET 2.0. Księga eksperta. Helion, 2008	
	Supplementary literature	Resources available on the platform https://learn.microsoft.com/pl-pl/dotnet/	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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