



Subject card

Subject name and code	Technological Platforms, PG_00058850						
Field of study	Informatics						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			5.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Jarosław Kuchta					
	Teachers	dr inż. Jarosław Kuchta dr inż. Marcin Narloch mgr Anna Domagalska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	15.0	0.0	45
	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	45		8.0		72.0	125
Subject objectives	Student gets familiar with simple .NET based applications and should be able to use most common mechanisms within them.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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	Ability to develop .NET-based applications.	[SU1] Assessment of task fulfilment
	[K6_W42] 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 cooperation with computers and computer-aided teamwork	Student gains knowledge of using ASP.NET web framework.	[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	Student gets familiar with C# language and actively uses basics of object-oriented design.	[SW1] Assessment of factual knowledge
	[K6_W05] Knows and understands, to an advanced extent, methods of supporting processes and functions, specific to the field of study	Student knows programming models. Student knows basic object oriented programming platforms.	[SW1] Assessment of factual knowledge
	[K6_U41] can produce, test or evaluate software using modern programming platforms, tools, languages and paradigms of different levels, as well as use software packages supporting scientific and research processes as well as business decision-making processes and teamwork	Student has the opportunity to design and create mobile solutions based on .NET framework.	[SU1] Assessment of task fulfilment
Subject contents	.NET platform components Introduction to C# Collections ASP.NET - sessions and scrip languages ASP.NET page lifecycle ASP.NET controls Configuring web applications ASP.NET MVC - new approach to web developmet ADO.NET data access layer Processing XML documents in .NET Security in .NET		
Prerequisites and co-requisites	Student must possess basic knowledge of modern object - oriented languages (JAVA, C++), relational databases and understanding concepts of developing web pages. Additionally, student is expected to have knowledge of SQL and HTML languages.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Laboratory	50.0%	33.0%
	Exam	50.0%	34.0%
	Project	50.0%	33.0%
Recommended reading	Basic literature	http://msdn.microsoft.com/pl-pl/ms348103.aspx	
	Supplementary literature	http://www.asp.net/get-started	

	eResources addresses	Adresy na platformie eNauczenie: Platformy Technologiczne .NET (nstac) - 2023/24 - Moodle ID: 37357 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37357
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	