

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	Mobile Technologies, PG_00048668							
Field of study	Electronics and Telecommunications							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
Education level	second-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 university		
Year of study	1		Language of instruction		Polish			
Semester of study	2		ECTS credits		2.0			
Learning profile	general academic profile		Assessment form		assessment			
Conducting unit	Department of Geoinformatics -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Przemysław Falkowski-Gilski					
	Teachers dr inż. Przemysław Falkowski-Gilski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project S		Seminar	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		4.0		16.0		50
Subject objectives	The aim is to develop a computer engineer who has knowledge and skills in the use of tools for creating mobile applications . He is prepared to work effectively in development teams in IT companies and ICT as well as in education, where their knowledge and skills will be used with the principles of legal and ethical awareness and the social problems of computerization.							

Learning outcomes Course outcome		Subject outcome	Method of verification				
	[K7_U06] can analyse the operation of components, circuits and systems related to the field of study; measure their parameters; examine technical specifications; interpret obtained results and draw conclusions	Students are able to use appropriate tools and programming languages to study selected problems.	[SU2] Assessment of ability to analyse information				
	К7_К02	Students are able to use appropriate tools and metrics to evaluate designed solutions.	[SK3] Assessment of ability to organize work				
	[K7_W03] Knows and understands, to an increased 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.	Students are able to choose appropriate methods, tools, as well as hardware and software layer, depending on the specificity of the analyzed problem.	[SW3] Assessment of knowledge contained in written work and projects				
	[K7_U03] can design, according to required specifications, and make a complex 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	Students are able to properly design and implement the software layer of a mobile application.	[SU4] Assessment of ability to use methods and tools				
	[K7_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	Students are able to identify key elements of computer systems architecture, in particular mobile devices.	[SW1] Assessment of factual knowledge				
Subject contents	Android basics - architecture, availal Android API basics - Manifest file, A						
	Basics of Windows 10						
Prerequisites and co-requisites	Basic Java, as well as C# and C++ programming language skills						
	Basics of Object oriented programming						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Laboratory	50.0%	50.0%				
	Lecture	50.0%	50.0%				
Recommended reading	Basic literature Hellman E., "Platforma Android – Nowe wyzwania", Helion, 2014. Android developers Guide - http://developer.android.com/index.html Microsoft Developer Network http://ww.msdn.com						
	Supplementary literature Additional materials available online						

	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	The development of a simple application of digital map on mobile device equipped with Android system. Creating the Android application using web-service		
Work placement	Not applicable		