

Subject card

Subject name and code	Android applications development, PG_00047768							
Field of study	Informatics							
Date of commencement of studies	October 2023		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	Part-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction		Polish			
Semester of study	3		ECTS credits		4.0			
Learning profile	general academic profile		Assessme	ssessment form		exam		
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	Projec	t	Seminar	SUM
	Number of study hours	12.0	0.0	6.0	9.0		0.0	27
	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	27		10.0		63.0		100
Subject objectives	The aim is to develop a computer engineer who has knowledge and skills in the use of tools designed to create a mobile application for Android. 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 maintaining legal and ethical principles and with the awareness of social problems of computerization.							

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Learning outcomes [K7_W41] Knows and understands, to an increased extent, the standards, production methods, life cycle and development trends of software as well as information systems and applications.		Subject outcome	Method of verification				
		Students are able to point out major components of mobile devices, as well as available sensors.	[SW1] Assessment of factual knowledge				
	[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_W42] Knows and understands, to an increased extent, the principles and trends in the analysis and design of local and distributed IT systems and the basics of computer modeling and computerization of complex cognitive and decision-making processes.	Students are able to chose appropriate methods, tools, as well as hardware and software layer, depending on the specific of the analyzed case.	[SW3] Assessment of knowledge contained in written work and projects				
	[K7_U04] can apply knowledge of programming methods and techniques as well as select and apply appropriate programming methods and tools in computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, making assessment and critical analysis of the prepared software as well as a synthesis and creative interpretation of information presented with it	Students are able to use appropriate tools and programming languages in order to solve selected cases.	[SU2] Assessment of ability to analyse information				
Subject contents	The genesis of Android project						
	The architecture of the system						
	Programming basics and API						
	available services						
	Sensors data acces						
Prerequisites and co-requisites	Basic Java programming skill						
	Object programming basics						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lecture	50.0%	40.0%				
	Project	50.0%	30.0%				
	Laboratory	50.0%	30.0%				
Recommended reading	Basic literature	Android Programming Guide					
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	eResources addresses						
	enesources addresses	Adresy na platformie eNauczanie:					

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	Creating an application that uses data from the built-in GPS receiver Create an application using JNI
Work placement	Not applicable

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