

Subject card

Subject name and code	iOS Programming, PG_00047772								
Field of study	Informatics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
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	4		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Geoinformatics -> Faculty of Electronics Telecommunications and Informatics -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. Tomasz Idzi						
	Teachers	mgr inż. Tomasz Idzi							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM	
of instruction	Number of study hours	12.0	0.0	9.0 6.0			0.0	27	
	E-learning hours inclu	uded: 0.0				i		•	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	27		10.0		63.0		100	
Subject objectives	To familiarise students with Swift programming language and using it for application development in iOS. The subject concerns advanced issues connected with application development and extending, like writting unit tests and tests of the user interface which has been implemented as universal and responsive. To utilise fully the platform potential, applications are expected to be extended by supporting the offline mode with using Core Data.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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		Before start the project, students have to prepare specification of the app which will be developing during the course, where describe in details what exactly have to be done.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[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 have to create the app for iOS which will make request to web service, get data, parse and display in specific user interface.		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools				

Data wygenerowania: 20.06.2025 00:21 Strona 1 z 2

Cubicat contents	- News in iOS										
Subject contents	- NGWS III IOO										
	- Swift programming language, introduction										
	- Swift programming language, advanced practices										
	Contraction of the state of the										
	- Core Data										
	- Unit tests										
	- UI tests										
	- Advanced techniques of UI development										
Descriptor	None										
Prerequisites and co-requisites	None.										
Assessment methods	Outlies to experience with size	December of the sector of the	Danisata as of the final and t								
and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade								
	lab	50.0%	40.0%								
	lecture	50.0%	40.0%								
	project	50.0%	20.0%								
Recommended reading	Basic literature	1. Tomasz Idzi; Lecture materials, Online, 2018;									
	Tomasz Idzi; Lab materials, Online, 2018; Sessions Videos from WWDC; Online (developer.apple.com), 2018;										
							Supplementary literature	The Swift Programming Language, Apple Inc. 2014			
							2. App Development With Swift, Apple Inc. 2016				
	eResources addresses										
	Example issues/	- Creation of an application using UICollectionView- Creation of an application using file work, UITableView									
	example questions/	and maps- Creation of an application using Core Data- Gesture recognition in a mobile application									
	tasks being completed										
	Work placement	Not applicable									

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Data wygenerowania: 20.06.2025 00:21 Strona 2 z 2