



## Subject card

Subject name and code	Service Platforms and Applications for NGN - Project, PG_00048354						
Field of study	Electronics and Telecommunications						
Date of commencement of studies	February 2023		Academic year of realisation of subject		2023/2024		
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		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Teleinformation Networks -> Faculty of Electronics, Telecommunications and Informatics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marcin Narloch				
	Teachers		dr inż. Marcin Narloch				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	15.0	0.0	15
	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	15		2.0		8.0	25
Subject objectives	Student describes realizations of service platforms for the next generation networks. Student determines correct realizations of applications fulfilling users needs in next generation networks						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U08] while identifying and formulating engineering tasks specifications and solving these tasks, can:n- apply analytical, simulation and experimental methods,n- notice their systemic and non-technical aspects,n- make a preliminary economic assessment of suggested solutions and engineering workn		Student knows programming applications for service platforms in Next Generation Networks		[SU1] Assessment of task fulfilment		
	[K7_U09] can carry out a critical analysis of the functioning of existing technical solutions and assess these solutions, as well as apply experience related to the maintenance of advanced technical systems, devices and facilities typical for the field of studies, gained in the professional engineering environment		Student knows programming applications for service platforms in Next Generation Networks		[SU1] Assessment of task fulfilment		
Subject contents	1. Exemplary IMS application layer implementations 2. Specificity of JAIN SLEE application programming 3. Analysis and design of exemplary JAIN SLEE applications 4. Specificity of SIP Servlet application programming 5. Analysis and design of exemplary SIP Servlet applications 6. Charteristics of Mobicents as a platform for NGN application development 7. Specificity of Parlay/OSA application programming 8. Analysis and design of exemplary Parlay/OSA applications 9. Specificity of application programming for mobile platforms in the context of applications for NGN						
Prerequisites and co-requisites	No requirements						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Project realised during semester		50.0%		100.0%		
Recommended reading	Basic literature		Material prepared by the lecturer in the form of xeroxcopy.				

	Supplementary literature	Boulton C., Gronowski K., Understanding SIP Servlets 1.1, Artech House, 2009. Javi R., Bakker J., Anjum F., Programming converged networks: call control in Java, XML, and Parlay/OSA, Wiley-Interscience; 2003.
	eResources addresses	Adresy na platformie eNauczenie: Platformy usługowe i aplikacje sieci NGN - Projekt - edycja 2023-2024 - Moodle ID: 33016 <a href="https://enauczenie.pg.edu.pl/moodle/course/view.php?id=33016">https://enauczenie.pg.edu.pl/moodle/course/view.php?id=33016</a>
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	