GDAŃSK UNIVERSITY OF TECHNOLOGY

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 2027	Academic year of realisation of subject	2027/2028
Education level	second-cycle studies	Subject group	Optional subject group Specialty 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 -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marcin Narloch	
	Teachers	dr inż. Marcin Narloch	

Lesson types

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: - apply analytical, simulation and experimental methods, - notice their systemic and non-technical aspects, - make a preliminary economic assessment of suggested solutions and engineering work	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

Course content – project
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		
Example issues/ example questions/ tasks being completed			
Practical activites within the subject	Not applicable		

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