

Subject card

Subject name and code	Technologies of Interaction, PG_00058804							
Field of study	Informatics							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study		
						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	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form		exam			
Conducting unit	Department of Computer Architecture -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Mariusz Szwoch					
	Teachers dr inż. Mariusz Szwoch							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Semina		SUM
	Number of study hours	12.0	0.0	15.0	0.0		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	learning architectures of distributed Internet systems, mechanisms and solutions to problems and issues in Internet applications.							

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Inc. Word Assessment of factual Student can implement the planting and the principles in methods and the principles in methods and the principles of computer software development or programmable elements or systems specific to the field of study, and organisation of student in the final principles of such as the field of study, and organisation or organisation of student in the final principles of such as the field of study, and organisation or organisation or organisation of such as the field of study, and organisation or organisation of such as the field of study, and organisation or organisation of the field of study, and organisation organisation of the field of study, and organisation organisation of the field of study, and organisation	Learning outcomes	Course outcome	Subject outcome	Method of verification			
understands, to an increased extent, the standards, produciblo methods, life cycle and well as policitations in methods, life cycle and well as policitations and applications in the processor of the commence of the CI/CD processor and applications. If I/C / W42 Jickneys and understands, to an increased extent, the principles and trends in the analysis and design of local and distributed IT systems and the basis of computer modeling and cognitive and decision-making processors. If I/C / U44 Can apply knowledge of programming methods and techniques as well as select and apply appropriate programming methods and techniques are well as select and apply appropriate programming methods and tools in computer software development or controllers using microprocessors or programmable elements or systems specific to the field of study, making assessment and manufacture of the controllers and analysis of information presented with it. I/K / U41 can select methods of modelling and analysis of information presented with it. I/K / U41 can select methods of modelling and analysis of information presented with it. I/K / U41 can select methods of modelling and analysis of information presented with it. I/K / U41 can select methods of modelling and analysis of information presented with it. I/K / U41 can select methods of modelling and analysis of information presented with it. I/K / U41 can select methods of modelling and analysis of information presented with it. I/K / U41 can select methods of modelling and analysis of information systems and applications (surge selected elements of theoretical computer scheme and modern programming locations.) I/K / U41 can select methods of modelling and analysis of information systems and applications (surge selected elements of theoretical computer scheme and modern programming locations.) I/K / U41 can select methods of information systems and papications. I/K / U41 can select methods of information systems and continue to the continue to		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	internet application based on the plain java servlet technology 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 computer studied IT systems and the basics of computer modeling and computer studies of computer modeling and computer studies.		understands, to an increased extent, the standards, production methods, life cycle and development trends of software as well as information systems and	contenerized applications in order to improve quality and performance of the CI/CD				
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 programming devices or controllers using microprocessors or programming devices 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 [k7_U41] can select methods of modelling and analysis of information systems and applications using selected elements of theoretical computer science and modern programming tools Subject contents 1 Fundamentals of Internet communication, using HTTP(S) 2 session, passing parameters between client and server 3 Fundamental software architectures for distributed applications (hasics, examples): a client-server b. distributed objects c. multi-tier architectures d. agent systems e. SOA1, grd, cloud computing g. mobile applications 8. Securing Internet applications 8. securing Internet applications 8. securing Internet applications 8 mobile applications in the internet Prerequisites and co-requisites Assessment methods and criteria Practical exercise Subject passing criteria Practical exercise Subject passing criteria Practical exercise Subject passing criteria Practical exercise 1 Dokumentacja HTTP, WSDL, SOAP, UDDI 2 S. Graham, S. Simeonov, T. Boubez, D. Davis, G. Daniels Building Web Services with Javas Waking Sense of XML, SOAP, WSDL and UDDI Example Issues/ example questions/ tasks being completed		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	of an internet application and can describe which architecture is used by the modern internet				
Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of the popular internet protocols such as http/1.1, http/2, soap, rpc, grpc. Imitations of its top, grpc. Imitations of distributed splications (basics, examples): a client-service of distributed applications (basics, examples): a client-service of distributed applications (basics, examples): a client-service of distributed applicat		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	architecture of application and the components appropriate for the				
and server 3 Fundamental software architectures for distributed applications (basics, examples): a. client- server b. distributed objects c. multi-tier architectures d. agent systems e. SOA f. grid, cloud computing g. mobile applications 4 Servlets/JSP 5 JEE 6 Web Services (SOAP, WSDL, UDDI etc.), using AXIS 5 Complex workflows using services 6 Design of web and business layers 7. load balancing in Internet applications 8. securing Internet applications 9 mobile applications in the Internet knowledge of Java Prerequisites		modelling and analysis of information systems and applications using selected elements of theoretical computer science and modern programming	limitations of the popular internet protocols such as http/1.1, http/2,				
Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Practical exercise 50.0% 50.0%	Subject contents	and server 3 Fundamental software architectures for distributed applications (basics, examples): a. client-server b. distributed objects c. multi-tier architectures d. agent systems e. SOA f. grid, cloud computing g. mobile applications 4 Servlets/JSP 5 JEE 6 Web Services (SOAP, WSDL, UDDI etc.), using AXIS 5 Complex workflows using services 6 Design of web and business layers 7. load balancing in Internet					
and criteria Practical exercise 50.0% 50.0% Written exam 50.0% 50.0% Recommended reading Basic literature 1 Dokumentacja HTTP, WSDL, SOAP, UDDI 2 S. Graham, S. Simeonov, T. Boubez, D. Davis, G. Daniels Building Web Services with Java: Making Sense of XML, SOAP, WSDL and UDDI		knowledge of Java					
and criteria Practical exercise Written exam 50.0% 50.0% Recommended reading Basic literature 1 Dokumentacja HTTP, WSDL, SOAP, UDDI 2 S. Graham, S. Simeonov, T. Boubez, D. Davis, G. Daniels Building Web Services with Java: Making Sense of XML, SOAP, WSDL and UDDI Supplementary literature Resources addresses Adresy na platformie eNauczanie: Technologie interakcji MSU 2024 - Moodle ID: 36606 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36606 Example issues/ example questions/ tasks being completed	Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
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eResources addresses Adresy na platformie eNauczanie: Technologie interakcji MSU 2024 - Moodle ID: 36606 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36606 Example issues/ example questions/ tasks being completed	Recommended reading	Simeonov, T. Boubez, D. Davis, G. Daniels Building Web Services wit					
Technologie interakcji MSU 2024 - Moodle ID: 36606 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36606 Example issues/ example questions/ tasks being completed		Supplementary literature	·				
example questions/ tasks being completed		eResources addresses	Technologie interakcji MSU 2024 - Moodle ID: 36606				
Work placement Not applicable	example questions/						
		Not applicable					

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