

Subject card

Subject name and code	Technologies of Interaction, PG_00058804							
Field of study	Informatics							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025		
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		Assessmer	nent 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	ect Seminar		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 didac classes included in s 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.							

Data wydruku: 30.06.2024 23:14 Strona 1 z 2

IKC_U412 can select methods of modeling and analysis of information systems and delimination of the popular internet protocols acut as http://http://	Learning outcomes	Course outcome	Subject outcome	Method of verification				
programming methods and techniques as well as select and apply appropriate programming software development or or programming devices or controllers using microprocessors or programming devices or systems specific to the field of controllers using microprocessors or programming devices or controllers used as a synthesis and creative interpretation of information presented with it. (KC_W42) Knows and understands, to an increased extent, the principles and trends in the basis of computer modeling and computers and trends in the basis of computer modeling and computers. If yestems and processors. (KZ_W41) Knows and understands, to an increased extent, the standards productions and distributed in processors. (KZ_W41) Knows and understands, to an increased extent, the standards productions and applications. If it is standards to a make a systems and applications. If it is standard to a server bid distributed of programming and techniques of programming and techniques of productions and techniques of programming and techniques are programming and tech		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,					
understands, to an increased exement, 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. IKT_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. IKT_W40 Knows and understands, to an increased extent, the principles of computer software development trends of software as well as information systems and applications. IKT_W40 Knows and understands, to an advanced extent, the principles of computer software development or programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems using computers or such devices. Subject contents 1 Fundamentals of Internet communication, using HTTP(S) 2 session, passing parameters between client and server 3 Fundamental software architectures (agent systems, examples); a client-server b client but obtained applications (agent systems computers) or such devices or controllers using omputers or such devices or controllers using microprocessors or programmable elements or systems using computers or such devices.		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					
understands, to an increased extent, the standards, production methods, life cycle and development trends of software as well as information systems and applications. [IK7_W04] Knows and 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 using computers or systems using computers or systems using computers or sundervices. 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 (basics, examples): a. client-server b. distributed objects c. multi-lier architectures of agent systems e. SOA f. grid. cloud computing g. mobile applications 4 Serviets (SDP) 5 JEE 6 Web Services (SOA) 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 in the Internet knowledge of Java Prerequisites and co-requisites Assessment methods and criteria Recommended reading Recommended reading Example issues/		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					
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 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 devices 1		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					
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		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					
Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade	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 Written exam 50.0% 50.0% Fractical exercise 50.0% 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: Example issues/								
Practical exercise 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 No requirements eResources addresses Adresy na platformie eNauczanie:		Subject passing criteria	Passing threshold	Percentage of the final grade				
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 eResources addresses No requirements Adresy na platformie eNauczanie:		Written exam	50.0%	50.0%				
Simeonov, T. Boubez, D. Davis, G. Daniels Building Web Services with Java: Making Sense of XML, SOAP, WSDL and UDDI Supplementary literature No requirements eResources addresses Adresy na platformie eNauczanie: Example issues/		Practical exercise	50.0%	50.0%				
eResources addresses Adresy na platformie eNauczanie: Example issues/	Recommended reading		Simeonov, T. Boubez, D. Davis, G. Daniels Building Web Services with					
Example issues/			·					
		eResources addresses	Adresy na platformie eNauczanie:					
tasks being completed	example questions/							
Work placement Not applicable	Work placement	Not applicable						

Data wydruku: 30.06.2024 23:14 Strona 2 z 2