



Subject card

Subject name and code	Automation of Business Processes, PG_00055360						
Field of study	Informatics						
Date of commencement of studies	February 2024	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			English		
Semester of study	1	ECTS credits			3.0		
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	mgr inż. Krystyna Dziubich					
	Teachers	mgr inż. Krystyna Dziubich					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	0.0	30
	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	30		8.0		37.0	75
Subject objectives	Presentation of business process automation						

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	It models business processes, simulates the process, takes actions to optimize the process in terms of time or costs.	[SU4] Assessment of ability to use methods and tools
	[K7_W43] Knows and understands, to an increased extent, the nformal, technical and social aspects of the operation of complex information systems in the information society and in the global information n infrastructure.	Understands BPMN models showing the contact between B2B systems (generally X2Y)	[SW1] Assessment of factual knowledge
	[K7_W03] Knows and understands, to an increased extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum.	Understands the construction and use of IT architecture in the context of the enterprise's business architecture	[SW1] Assessment of factual knowledge
	[K7_W06] Knows and understands, to an increased extent, the basic processes taking place in the life cycle of devices, facilities and technical systems.	knows and understands the business process life cycle	[SW1] Assessment of factual knowledge
[K7_W09] Knows and understands, to an increased extent, the economic, legal and other conditions of various types of activities related to the given qualification, including the principles of protection of industrial property and copyright.	The student understands various aspects of business modeling (motivation model, organizational model, business process model, business rules model), in particular with regard to legal restrictions.	[SW1] Assessment of factual knowledge	
Subject contents	Strategy, business modeling, Business process, BPA, porcess management;		
	Modeling business processes - BPMN		
	Automation of operational processes - SOA Suite (BPEL), BPM Suite;		
Prerequisites and co-requisites	No recommendations		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	50.0%	40.0%
	Exam	50.0%	60.0%
Recommended reading	Basic literature	J.Freund, B.Rucker, Real-Life BPMN, 2012 camunda, isbn: 978-1480034983	
	Supplementary literature	D.M. Bridgeland, R.Zahavi: "Business Modeling - A practical Guide to Realizing Busines Value" Morgan Kaufmann 2009 Bruce Bukovics: "Pro WF: Windows Workflow in .NET 3.0" Apress 2007	
	eResources addresses	Adresy na platformie eNauczenie: Automation of Business Processes (2024) - Moodle ID: 37646 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=37646	
Example issues/ example questions/ tasks being completed	Process modeling in BPMN notation		
Work placement	Not applicable		