

Subject card

Subject name and code	IT Tools and Techniques in Business Process Management, PG_00178737						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Master's studies	Subject group			Obligatory subject group in the field of study Optional subject group 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	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			5.0		
Learning profile	academic	Assessment form			credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Bartłomiej Gawin				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	24.0	0.0	0.0	32
	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	32		2.0		91.0	125
Subject objectives	Skills improving of multidimensional modeling, parameterization, simulation and analysis of business processes in dedicated IT tools.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[liEMU2_W06] The student possesses a structured understanding of the processes, methods, and tools necessary for the design, creation, development, and provision of suitable conditions for informatics, econometrics or statistics tools.		The student has structured and theoretically based knowledge of business processes, tools and techniques for their design, parameterization, simulation and analysis.			[SW2] presentation/project/paper/report	
	[liEMU2_U11] The student can collaborate effectively in teams and assume leadership roles.		The student is able to cooperate and work in process teams, direct their design work or take a leading role in them.			[SU2] presentation/project/paper/report	
	[liEMU2_U12] The student can adapt, design, create, and operate IT systems that support business entities.		The student is able to design business processes that support the functioning of economic entities.			[SU2] presentation/project/paper/report	
	[liEMU2_U01] The student can creatively and profoundly analyze complex social and economic processes using structured knowledge, econometrics, informatics, or statistics tools.		The student is able to analyze and interpret complex and multidimensional business processes in an in-depth and creative way using structured knowledge and IT tools.			[SU2] presentation/project/paper/report	

Subject contents	<p>A. Lecture topics</p> <p>Discussion of the basics of business process management</p> <p>Discussion of design notations for modeling business processes and decision rules</p> <p>Discussion of tools for designing, simulating, and analyzing business processes</p> <p>Discussion of tools for designing, simulating, and analyzing decision rules in business processes</p> <p>B. Exercise topics</p> <p>Practical presentation and application of the Adonis tool in exercise work</p>											
Prerequisites and co-requisites	<ul style="list-style-type: none"> Prerequisites: Economic informatics, databases Additional requirements: Basic knowledge of organizational management 											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="451 707 794 734">Subject passing criteria</th> <th data-bbox="794 707 1137 734">Passing threshold</th> <th data-bbox="1137 707 1487 734">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 734 794 770">work project</td> <td data-bbox="794 734 1137 770">50.0%</td> <td data-bbox="1137 734 1487 770">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	work project	50.0%	100.0%			
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Recommended reading	<table border="1"> <tbody> <tr> <td data-bbox="451 781 794 981">Basic literature</td> <td colspan="2" data-bbox="794 781 1487 981"> Gawin B., Systemy informatyczne w zarządzaniu procesami workflow, PWN 2015 Gawin B., Marcinkowski B.: Symulacje procesów biznesowych. Standardy BPMS i BPMN w praktyce, Helion 2013 </td> </tr> <tr> <td data-bbox="451 981 794 1167">Supplementary literature</td> <td colspan="2" data-bbox="794 981 1487 1167"> BOC: ADONIS User Manual Mathias Weske, Business Process Management: Concepts, Languages, Architectures, Springer 2012 </td> </tr> <tr> <td data-bbox="451 1167 794 1205">eResources addresses</td> <td colspan="2" data-bbox="794 1167 1487 1205"></td> </tr> </tbody> </table>			Basic literature	Gawin B., Systemy informatyczne w zarządzaniu procesami workflow, PWN 2015 Gawin B., Marcinkowski B.: Symulacje procesów biznesowych. Standardy BPMS i BPMN w praktyce, Helion 2013		Supplementary literature	BOC: ADONIS User Manual Mathias Weske, Business Process Management: Concepts, Languages, Architectures, Springer 2012		eResources addresses		
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Example issues/ example questions/ tasks being completed	Design a multidimensional business process model in ADONIS, parameterize it and perform path simulation and load analysis.											
Work placement	Not applicable											

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