



## Subject card

Subject name and code	Processes Modelling Methods, PG_00044282						
Field of study	Engineering Management						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2023/2024		
Education level	first-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	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Industrial Management -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Andrzej Szuwarzyński				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	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	6.0		39.0		75
Subject objectives	The aim of the course is to present selected forms of management and process modeling						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems	has basic knowledge in the field of design, modeling and optimization of processes			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes	analyzes engineering and managerial solutions in decision making processes, including aspects focused on process management			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_U04] forecasts phenomena and processes in the organisation, including technical and innovative processes	The student is able to forecast technical processes in the enterprise			[SU4] Assessment of ability to use methods and tools		
Subject contents	<ul style="list-style-type: none"><li>- basics of modeling</li><li>- model classifications</li><li>- static and dynamic models</li><li>- review of process modeling methods</li><li>- notations in process modeling</li><li>- KPIs as process success factors</li><li>- BPMN in process modeling</li></ul>						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	writing paper	60.0%			100.0%		
Recommended reading	Basic literature		Drejewicz S. Zrozumieć BPMN. Modelowanie procesów biznesowych, Wyd. Helion, Gliwice 2011  Grajewski P. Procesowe zarządzanie organizacją, Wyd PWE Warszawa 2012				

	Supplementary literature	Szczepańska K., Bugdol M., Podstawy zarządzania procesami, Wyd Difin, Warszawa 2016
	eResources addresses	
Example issues/ example questions/ tasks being completed	Identification, analysis, modeling and improvement of the selected process	
Work placement	Not applicable	