



Subject card

Subject name and code	WORKFLOW MANAGEMENT, PG_00070672						
Field of study							
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
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	1		Language of instruction		English		
Semester of study	2		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Management -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Sławomir Ostrowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	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	60		3.0		37.0	100
Subject objectives	Preparation for the use of methods and tools for organizing work processes based on knowledge in the field of analysis and improvement of work processes, as well as shaping attitudes of ethical and social responsibility in the context of designing, evaluating and optimizing work systems.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K02] is prepared to make competent and ethical decisions to create and maintain economic, social, and environmental values, demonstrating entrepreneurial actions.		is ready to make competent and ethical decisions in the workplace, particularly by assessing the organizational impact of solutions in the context of social and environmental values.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W07] knows and understands advanced methods for analyzing the management process in technical, legal, economic, financial, and social contexts.		knows and understands methods of analyzing management processes in technical, social, legal, and financial contexts, with reference to designing and improving work processes within an organization.		[SW1] Assessment of factual knowledge		
	[K6_U01] is able to analyze and evaluate complex processes in terms of their improvement, using various methods, including analytical and simulation techniques.		is able to analyze and evaluate complex work processes using analytical and optimization techniques tailored to the specific characteristics of the organization		[SU1] Assessment of task fulfilment		

Subject contents	Course content – lecture 1. Evaluation and analysis in the organization of work processes 2. Human-centric work systems 3. Research and improvement of work processes 4. Standardizing the times of work processes 5. Evaluation and analysis of workload 6. Predispositions of operators and performance of work 7. Enriched work concepts 8. Organization of shift work 9. Organization of work loaded with monotony 10. Valuation and qualification of work processes 11. Selection and optimization of resources in work systems 12. Assessment of information links and information security 13. Shaping the spatial structure of work 14. Design and standardization of processes in the organization 15. Standardization of work processes Course content – laboratory 1. Identification, notation and mapping of processes 2. Modeling the assignment of tasks and roles in processes 3. Evaluation of the functionality of work systems using the 5M and 5S methods 4. ETA and FTA techniques for examining work processes 5. Techniques of mapping work processes 6. Timing and snapshot observations 7. Analysis and simulation of workload 8. Identification of hazards and assessment of biomechanical loads 9. Methodology of psychometric normalization 10. Shift work organization techniques 11. Methods of evaluating and reducing work monotony 12. Work requirements and assessment of the operator's predisposition 13. Methods of job evaluation and qualification 14. Optimization of the course and resources of work processes		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Problem-based test (colloquium)	60.0%	15.0%
	Exam	60.0%	30.0%
	Team project	60.0%	30.0%
	Analytical essay	60.0%	25.0%
Recommended reading	Basic literature	1. Gałąź-Emiliańczyk K, 2020 Wdrożenie systemu zarządzania bezpieczeństwem informacji zgodnie z normą ISO/IEC 27001. Wydawnictwo ODDK 2. Gawin B., Marcinkowski B. 2013 Symulacja procesów biznesowych. Standardy BPMS i BPMN w praktyce. Wydawnictwo Helion 3. Grabosz J. 2014 Audyt komunikacji wewnętrznej w przedsiębiorstwie propozycja narzędzia diagnostycznego Wydawnictwo WZiE Politechnika Gdańska 4. Horst W.(red.) 2006 Ergonomia z elementami bezpieczeństwa pracy. Wydawnictwo PP Poznań 5. Piotrowski M. 2016 Procesy biznesowe w praktyce projektowanie, testowanie i optymalizacja, Wydawnictwo Helion 6. Rostek K, (red) M. Wiśniewski M. (red), 2020 Modelowanie i analiza procesów w organizacji Wydawnictwo OWPW 7. Stadnicki J. 2006 Teoria i praktyka rozwiązywania zadań optymalizacji Wydawnictwo W-NT, Warszawa 2006 8. Szatkowski K. 2022 Nowoczesne zarządzanie produkcją - ujęcie procesowe. Wydawnictwo Naukowe PWN	
	Supplementary literature	1. Auksztol J. Chomuszek M. 2021 Modelowanie organizacji procesowej. Wydawnictwo PWN 2. Busławski A. Kulińska E. 2021 Zarządzanie procesem produkcji. Wydawnictwo Difin 3. Grabosz J. 2000 Identyfikacja procesów w przedsiębiorstwie, Wydawnictwo PZ Zielona Góra 4. Karczewski J, Szuman P. 2019 Scilab. Modelowanie i symulacja pracy układów. Wydawnictwo NAKOM 5. Kusztełak P. 2020 Analiza i modelowanie danych finansowych, Wydawnictwo PWE 6. Krupa K. 2017 Modelowanie, symulacja i programowanie. Wydawnictwo PWN 7. Lewis H., Rachel Zas R. 2021 Matematyka dyskretna. Niezbędnik dla informatyków Wydawnictwo PWN 8. ISO 45 001 2018 Occupational health and safety management systems Requirements with guidance for use	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Workflow mapping		

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