



Subject card

Subject name and code	Production Management, PG_00037979						
Field of study	Management						
Date of commencement of studies	February 2023		Academic year of realisation of subject			2022/2023	
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	1		ECTS credits			2.0	
Learning profile	general academic profile		Assessment form			assessment	
Conducting unit	Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Marek Wirkus				
	Teachers		dr hab. inż. Marek Wirkus dr inż. Jolanta Łopatowska				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	8.0	0.0	0.0	0.0	16
	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	16		4.0		30.0	50
Subject objectives	The goal of the course is obtain by the students knowledge about contemporary operation systems of production and services. It gives the students skills in creation operation strategy and design operation systems.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K7_W03] has a broadened knowledge of the sciences of management and economics, including the evolution of the various types of structures and institutions and the links between them		Knows the methods of design Operation Processes. Process Layout Planning. Process Reengineering and Improvement. Process Management. Operations Decisions. Forecasting. Aggregate Planning. Materials Management. Inventory Control. Material Requirement Planning (MRP).Just-in-Time Systems. The Kanban System.			[SW1] Assessment of factual knowledge	
	[K7_W09] has an in-depth knowledge allowing for analysing, diagnosing and solving problems arising in organisations and its particular areas of activity as well as methods of estimating value, market and strategic potential		Knows the rules of Work-Force Management, Work standards, Methods of Work Measurement, Teamwork.			[SW1] Assessment of factual knowledge	
	[K7_U05] selects appropriate methods and tools to describe and analyse the problems and areas of activity of the organization and its environment and assess their usefulness and effectiveness, with particular emphasis on their application in government, local government and non-profit organizations		Description of the produkt. Operation strategy. Identification of processes. Selecting of technology equipment. Control System of Production (Production Management System) Plan of Layout Implementing Plan.			[SU1] Assessment of task fulfilment	

Subject contents	Introduction. Historical view. Manufacturing strategy as a competitive tool. Objectives and measures of operational activity. Productivity. The structure of the production system. Structure, types and forms of organization of production. Organization of the production process. Production planning and control. Coordination of demand and production. Supplies management. Material Requirements Planning (MRP) method. Changing the principles of production management in the conditions of using information technology: MRP II, CIM and BPR. The concept of JIT and Lean Manufacturing. Kanban flow control system.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	60.0%	50.0%
	Project	80.0%	50.0%
Recommended reading	Basic literature	1. Durlik I.: Inżynieria zarządzania. Cz. I oraz cz. II. Wyd. 7; PLACET, 2019 2. Inżynieria produkcji. Kompendium wiedzy. Red. R. Knosala. Wyd. PWE 2017 3. Pająk E.: Zarządzanie produkcją - Produkt, technologia, organizacja. PWN. Warszawa, wyd. 2, 2021 4. Waters D.: Zarządzanie operacyjne. PWN, 2001	
	Supplementary literature	Jasiński Z.: Podstawy zarządzania operacyjnego, Oficyna Ekonomiczna, Kraków, 2005 Muhlemann A.P., Oakland J.S., Lockyer K.G.: Zarządzanie. Produkcja i usługi. PWN Warszawa 1995 Krajewski L.J., Ritzman L.P.: Operations Management: Strategy and Analysis. 4th Edition, Addison-Wesley Publishing Company, 1996	
	eResources addresses	Adresy na platformie eNauczanie: Zarządzanie produkcją - Moodle ID: 19391 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=19391	
	Example issues/ example questions/ tasks being completed	Concept and development of production; supply chain management; analysis of production systems; supply logistics; production logistics; costs, robotization of production, industry 4.0.	
Work placement	Not applicable		