



## Subject card

Subject name and code	Production Management, PG_00037706						
Field of study	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			English		
Semester of study	4	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Mateusz Muchlado					
	Teachers	dr Mateusz Muchlado dr inż. Ewa Marjańska mgr Anna Wendt					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	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	45	8.0		47.0		100
Subject objectives	The aim of the course is for the student to obtain basic knowledge about internal and external supply chain management mechanisms, the ability to determine the critical path and optimize processes in the organization, with particular emphasis on production processes.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W07] knows statistical and IT methods and tools that enable to obtain and present data on the organisation's resources	The student is able to identify the statistical and IT tools assisting production management in an enterprise.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
	[K6_U06] predicts phenomena and processes in the organization, taking into account social aspects	Student is able to predict the production phenomena and processes taking into account the organisational and social aspects.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools		
	[K6_W08] has a basic knowledge of the methods and tools used to conduct research related to particular areas of business activity	The knowledge allows the students to use the basic tools of lean manufacturing in the production management of an enterprise.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
	[K6_U10] uses the acquired knowledge to work in a team based on basic teamwork techniques	The acquired knowledge and skills will enable the students to achieve the predefined educational goals.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_U09] uses theoretical knowledge to design solutions for managing the organization's resources	Student has an extended theoretical knowledge of designing and managing production projects in cooperation with an organisation.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	Lectures: Concept and development of production; supply chain management; production systems; analysis of production systems; supply logistics; production logistics; distribution logistics; production costs, robotization of production, industry 4.0.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	individual work	60.0%	30.0%
	Exam	60.0%	70.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Fogarty, D.W., J.H. Blackstone Jr., and T.R.Hoffman Production and Inventory Management 2nd ed., 1991.</li> <li>2. Landvater D., Gray Ch. MRP II Standard System. A Handbook for Manufacturing Software Survival Oliver Wight Limited Publications, Inc., Essex Junction, Vermont, USA, 1989.</li> <li>3. John F. Praud Master Scheduling: A Practical Guide to Competitive Manufacturing 3th Edition.</li> <li>4. Tony Arnold J.R., Chapman Stephen N. Introduction to Materials Management, Sixth Edition 2008.</li> <li>5. Monk Ellen, Wagner Bret, Concepts in Enterprise Resource Planning, 2d ed., Boston: Thomson Course Technology 2006.</li> <li>6. The Oliver Wight ABCD Checklist for Operational Excellence, Oliver Wight Manufacturing, 5th ed., 2000.</li> </ol>	
	Supplementary literature	<ol style="list-style-type: none"> <li>1. Vollman, Thomas E., William L. Berry, and D. Clay Whybark, Manufacturing Planning and Control Systems, 5th ed., Irwin McGraw-Hill, 2005.</li> <li>2. Sandras, William A., Just-In-Time: Making It Happen, John Wiley and Sons, Inc., 1989.</li> <li>3. Monden, Yasuhiro, Toyota Production System: An integrated Approach to Just-In-Time, 3rd ed., Engineering and Management Press, 1998.</li> </ol>	
	eResources addresses	Adresy na platformie eNauczanie: Production management (23/24) - Moodle ID: 36321 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36321">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36321</a>	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Definition of the production process</li> <li>2. What is the technological process?</li> <li>3. What is the auxiliary process?</li> <li>4. What are production cells?</li> <li>5. What is the bottleneck to production?</li> <li>6. The concept of Lean Management.</li> <li>7. The concept of Lean Manufacturing.</li> <li>8. The concept of Lean Production.</li> <li>9. Control techniques of production.</li> <li>10. Toyota production system.</li> </ol>		
Work placement	Not applicable		

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