University of Gdańsk

Subject card

Subject name and code	Operations and Supply Chain Management , PG_00155465		
Field of study	Management		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	postgraduate studies	Subject group	Obligatory subject group 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	academic	Assessment form	
Conducting unit	Zakład Rozwoju i Restrukturyzacji Przedsiębiorstw -> Katedra Strategicznego Rozwoju -> Faculty of Management		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Joanna Sadkowska	
	Teachers		

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	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	21.0	49.0	100

Subject objectives	This course aims at providing Students with operations and supply chain management knowledge, techniques and tools. Students, while working in project teams, will gain a practical approach towards managing operations with special attention paid to manufacturing processes.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[ZARZMU2_U10] The student has an in-depth ability to prepare written works and multimedia presentations on specific issues in management and quality studies, present them, and lead discussions in Polish and foreign languages.	Has the ability to prepare multimedia presentations in the area of operations and supply chain management and to present and discuss them in a foreign language.	[SU2] presentation/project/paper/ report [SU6] demonstration of practical skills
	[ZARZMU2_K06] The student is ready to work in, contribute to or manage groups. Takes the initiative when working in a group. The student can lead and supervise a team.	Is ready to work in, contribute to or manage teams. Takes initiative when working in teams. Is able to lead a team.	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[ZARZMU2_W11] The student knows and understands in an in-depth manner the principles of obtaining and using various types of resources in the implementation of the development objectives of the enterprise.	Has an in-depth knowledge and understanding of the principles of acquiring and using different types of resources while planning operations.	[SW2] presentation/project/paper/ report
	[ZARZMU2_U05] The student can correctly select and apply advanced, complex methods and tools used in management and quality studies.	Can correctly select and apply methods and plan operations and production processes.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU4] test/exam - oral or written
	[ZARZMU2_K07] The student is aware of the need to adapt his behavior and conduct to his role in the team. Is prepared to perform a professional role responsibly under changing social needs.	When planning operations, she/he adapts her/his behaviour and conduct to the role in the team.	[SK8] observation of student's independent or team work

Subject contents	Area I. Operations Management Using Gantt chart while planning operations Planning processes using analytical methods Johnsons Algorithm Palmers Algorithm Combinatorial method Simulation method Arrangement of workstations Muthers method MAT method Area II. Organization of the production process chain Enterprise environment Technical preparation of the manufacturing process (construction, technological and organizational preparation of production) The concept of reliability Organization of the manufacturing process in the enterprise Area III. Supply Chain Management Supply Chain Management introduction, role in the economy and organization Supply Chain Management strategy and performance measures. Quality in Supply Chain Management the improvement of logistics processes by using the quality improvement concepts, tools and techniques Lean, Kaizen, Six Sigma, Lean Six Sigma. Green Logistics how to create environmentally friendly logistics. Opportunities and challenges in Supply Chain Management future perspectives.
Prerequisites and co-requisites	---
Assessment methods and criteria	

Subject passing criteria	Passing threshold	Percentage of the final grade
written exam	51.0%	50.0%
project evaluation	51.0%	20.0%
activity during classes	0.0%	30.0%

<table>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Waters D., Operations management: producing goods and services- the newest edition if possible

2. Logistics Operations, Supply Chain Management and Sustainability,

Golinska P. (editor), Environmental Issues in Logistics and Manufacturing, Poznan University of Technology, Springer International Publishing, ISBN 978-3-319-07287-6 (eBook), 2014

3. Hugos M., Essential of chain management the newest edition if possible</td></tr>
<tr><td>Supplementary literature</td><td>1. Muhlemann A., Oakland J., Lockyer K., Production and operations management - any edition

2. Dües, C. M., Tan, K. H., Lim, M., Green as the new Lean: how to use Lean practices as a catalyst to greening your supply chain. Journal of Cleaner Production, (40), 93-100. DOI: http://dx.doi.org/10.1016/ j.jclepro.2011.12.023, 2013.

3. Malinowska E., Szymańska-Brałkowska M., Lean in the opinion of the employees of production company, Zarządzanie i Finanse. Journal of Management and Finance, Vol.13, No. 2/2015, Wydział Zarządzania Uniwersytetu Gdańskiego, Gdańsk 2015.

4. Schiffer, Martina; Dörr, David Maximilian: Development of the Supply Chain Management 2040 Opportunities and challenges. In: Nyhuis, P.; Herberger, D.; Hübner, M. (Eds.): Proceedings of the 1st Conference on Production Systems and Logistics (CPSL 2020), S. 29-36. DOI: https://doi.org/10.15488/9644, 2020.

5. Moczydłowska J., Sadkowska J., Żelazko B., Stawicka E., Understanding risk culture in the context of a sustainable project, Sustainability 15 (5302), pp. 1-16.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">1. Please below draw in which sequence you are going to manufacture elements using Palmers algorithm. Please explain when you can use it.

1. When suppliers driver is late with the delivery. What kind of muda/waste it is? (5p).
a) waiting
b) defects
c) inventory</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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