GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Production Management, PG_00040525		
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	Part-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Quality Management and Commodity Science -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Piotr Grudowski	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	16.0	0.0	0.0	8.0	0.0	24

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	24	7.0	69.0	100

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
[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management	Knows the Goals and Measures of Operations. Productivity. Operation Processes. Process Layout Planning. Process Reegineering and Improvement. Process Management.	[SW1] Assessment of factual knowledge
[K6_W02] has a basic knowledge of the different types of departments in the organisation, with particular emphasis on structures of an engineering nature	Student defines and explains contemporary operation systems of production and services. Creates operation strategy. Apples fundamental methods and tools of design operation systems..	[SW1] Assessment of factual knowledge
[K6_U11] can plan and control production and production quality, including the identification and formulation of specifications for simple engineering tasks		[SU1] Assessment of task fulfilment
[K6_K02] identifies problems related to undertaking various tasks, including engineering in the changing conditions of the organisation's functioning; takes into account the ethical aspect related to the implementation of the organisation's tasks		[SK1] Assessment of group work skills
[K6_W08] has a basic knowledge of the changes taking place in the organisation and its environment, taking into account environmental problems		[SW1] Assessment of factual knowledge

<table>
<tr><td>Subject contents</td><td>LECTURES:

1. Introduction. Historical view.
2. Ability and production program.
3. Forms of production organization.
4. BOM and MRP.
5. System and production process. ABC analysis.
6. Supplies management. Production control and planning.
7. Industry 4.0.
8. Ecological aspects and industry 4.0
9. MRPII and ERP systems</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Written exam</td><td>60.0%</td><td>50.0%</td></tr><tr><td>Project and colloquium</td><td>60.0%</td><td>50.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>1. Durlik I., Inżynieria zarządzania : strategia i projektowanie systemów produkcyjnych, Cz.1 i 2, Agencja Wyd."Placet", W-wa 2011.
2. Liwowski B., Kozłowski R., Podstawowe zagadnienia zarządzania produkcją, Oficyna Ekonomiczna. Kraków 2007.
3. Pająk E., Zarządzanie produkcją. Produkt, technologia, organizacja, Warszawa, PWN, 2014.
4. Sarjusz - Wolski Z., Sterowanie zapasami w przedsiębiorstwie, PWE, W-wa 2000.
5. Olszak C., Sroka H. (red.): Zintegrowane systemy informatyczne w zarządzaniu. Katowice: Wydawnictwo Akademii Ekonomicznej, 2001.
6. Syme D., Granicz A., Cystemino A., F# 4.0 dla zaawansowanych, Wyd. 4, Helion Apress, W-wa 2017.</td></tr><tr><td>Supplementary literature</td><td>1. Jasiński Z.: Podstawy zarządzania operacyjnego, Oficyna Ekonomiczna, Kraków, 2005
2. Muhlemann A.P., Oakland J.S., Lockyer K.G.: Zarządzanie. Produkcja i usługi. PWN Warszawa 1995
3. Krajewski L.J., Ritzman L.P.: Operations Management: Strategy and Analysis. 4th Edidion, Addison-Wesley Publishing Company, 1996</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Sketch and briefly characterize the types of machines and production facilities known to you. Which of them and why did you use in your project?</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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