STUDY MODULE DESCRIPTION FORM

Name of the module/subject	Code
Production and Operations Management	**1011101451011115676**

Field of study	Profile of study (general academic, practical)	Year /Semester
Logistics - Full-time studies - First-cycle studies	**(brak)**	**3 / 5**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
-	**Polish**	**obligatory**

Cycle of study:	Form of study (full-time,part-time)
First-cycle studies	**full-time**

No. of hours	No. of credits
Lecture: **30** Classes: **30** Laboratory: **15** Project/seminars: **-**	**5**

Status of the course in the study program (Basic, major, other)	(university-wide, from another field)
(brak)	**(brak)**

Education areas and fields of science and art	ECTS distribution (number and %)

Responsible for subject / lecturer:

dr inż. Agnieszka Grzelczak
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Faculty of Engineering Management
ul. Strzelecka 11 60-965 Poznań

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Student has a fundamental knowledge in the field of process engineering, production and logistics organization
2	**Skills**	Student understands and is able to apply the parameters of manufacturing process and systems for designing of organization of work stations
3	**Social competencies**	Student understands and is prepared to manage production and services especially in the scope of designing of organization of production

Assumptions and objectives of the course:

-Students become familiar with fundamentals of management of production and servces

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. has a basic knowledge of social sciences and humanities: management, psychology, sociology, philosophy and law - [K1A_W09]
2. has a basic knowledge of computer science (information technology), economics and transportation, production management and services, production systems design (industrial design) - [K1A_W10]
3. he is able to indicate the form of individual entrepreneurial characteristic of logistics and services related to the area of logistics - [K1A_W33]

Skills:

1. He can independently develop a set, housed in the subject being studied issue - [K1A_U05]
2. He can be formulated using analytical methods, simulation or experimental located within the subject being studied design task and solve the task in the field of logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics service,) and supply chain management - [K1A_W09]

Social competencies:

1. He is willing to cooperate and work in teams to resolve contained within the subject being studied problems - [K1A_K03]
2. He is able to see the cause-and-effect relationships in the implementation of the set objectives and importance rangować tasks - [K1A_K04]
3. He is able to plan and manage in an entrepreneurial manner - [K1A_K06]

Assessment methods of study outcomes

Current activity assessment, final test

Course description

-Essence of manage production and service. Classification of processes in enterprise, organized process. Parameters and normatives of production manage., manufacturing process modeling area, controlling standards. Product or service, production assortment, construction and production series, program of production, speed of production, time interval,. Production cycle,. Production possibilities Load and possibility of production compare. Production capacity manage, scheduling, production flow analyze. Fundamental of production and service controlling.Bill of material.Bill of resources. Fundamentals of Theory of Constrains. management of constrains in service processes. Scheduling of resources in service processes.

Basic bibliography:

1. Brzeziński M. (red.), Organizacja i sterowanie produkcją, AW Placet, Warszawa, 2002.
2. Durlik I., Inżynieria zarządzania, AMP WN, Katowice, 1993.
3. Mazurczak J., Projektowanie struktur systemów produkcyjnych, WPP, Poznań, 2001.
4. Muhlemann A., Oakland J., Lockyer K., Zarządzanie. Produkcja i usługi, PWN , Warszawa, 2001.
5. Senger Z., Sterowanie przepływem produkcji, WPP, Poznań, 1998.

Additional bibliography:

1. Głowacka-Fertsch D., Fertsch M., Zarządzanie produkcją, WSL, Poznań, 2004.
2. Liwowski B., Kozłowski R., Podstawowe zagadnienia zarządzania produkcją, Oficyna Ekonomiczna, Kraków, 2006.
3. Pająk E., Zarządzanie produkcją. Produkt, technologia, organizacja, PWN, Warszawa, 2006.

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	30
2. Participation in laboratories and exercises	45
3. Literaturę studiem	30
4. Independent solving of tasks	15
5. Preparation for test	5

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	70	3
Practical activities	45	2