STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Production Management		**1011105351011111178**
Field of study	Profile of study (general academic, practical)	Year /Semester
Engineering Management - Part-time studies -	**general academic**	**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	**part-time**	
No. of hours		No. of credits
Lecture: **12** Classes: **-** Laboratory: **10** Project/seminars: **10**		**4**
Status of the course in the study program (Basic, major, other)	(university-wide, from another field)	
other	**university-wide**	
Education areas and fields of science and art		ECTS distribution (number and %)
technical sciences		**3 75%**
social sciences		**1 25%**

Responsible for subject / lecturer:

dr inż. Agnieszka Grzelczak
email: agnieszka.grzelczak@put.poznan.pl
tel. 61 665 33 69
Faculty of Engineering Management
ul. Strzelecka 11, 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	The student has a basic knowledge of the technology used and the basis for the management and organization of work stations.
2	**Skills**	The student understands and can apply the parametric description of the process and the design of the production system and the organization of work stations.
3	**Social competencies**	The student understands and is prepared for production management especially in the design of the organization of production.

Assumptions and objectives of the course:

To familiarize students with the basics of production management.

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

Knowledge:

1. know the methods and tools for designing the production structures - [K1A_W09]
2. he has knowledge about the views on organizational structures and types of organizational ties and about their historical evolution - [K1A_W18]
3. has a basic knowledge of the life cycle of socio-technical systems - [K1A_W23]
4. knows the basic methods, techniques, tools and materials used to solve simple engineering tasks in the field of production management - [K1A_W24]
5. has the basic knowledge necessary to understand non-technical conditioning of engineering activities; knows the basic principles of occupational safety and health in the construction industry - [K1A_W25]
6. has basic knowledge of management, including production management and business operations - [K1A_W26]

Skills:

1. analyzes proposed solutions to specific management problems and proposes appropriate solutions in this regard - [K1A_U07]
2. it can perform critical analysis of technological processes of machine production and organization of production systems - [K1A_U16]
3. it can identify project tasks and solve simple project management tasks - [K1A_U17]
4. it can apply common methods of solving simple problems in production management - [K1A_U18]
5. it can design the organization of production units of the first degree of complexity - [K1A_U19]

Social competencies:
1. he can see causal relationships in the achievement of the goals set and the importance of alternative or competitive tasks - [K1A_K03]
2. is aware of the importance and understanding of the non-technical aspects and effects of engineering activities, including its environmental impact and the resulting responsibility for its decisions - [K1A_K08]

Assessment methods of study outcomes
Formative assessment: in project and laboratory: on the basis of an assessment of the current progress of the tasks in lectures: on the basis of answers to questions about the material discussed in the previous lectures Summary assessment: in project and laboratory: presentation of works in lectures: oral exam

Course description
The essence of production management. Classification of business processes, the process organized. The parameters and norms of production management, space modeling of the manufacturing process, the control plane. The product (product or service), the basis of technical preparation of production, product range, the program, the pace and rhythm of production. The production cycle of the product performance. Inventories production and their functions. Production capacity, balancing the burden of production capacity. Management of production capacity, scheduling, production flow analysis. Fundamentals of production control. DIDACTIC METHODS: information lecture, case study, method of exercise and design.

Basic bibliography:

1. Wróblewski K., Podstawy sterowania przepływemm produkcji, WNT, Warszawa 1993.
2. Senger Z., Sterowanie przepływem produkcji, WPP, Poznań, 1998.
3. Pająk E., Klimkiewicz M., Kosieradzka A., Zarządzanie produkcją i usługami, PWE, Warszawa 2014.
4. Brzeziński M. (red.), Organizacja i sterowanie produkcją, AW Placet, Warszawa, 2002.
5. Mazurczak J., Projektowanie struktur systemów produkcyjnych, WPP, Poznań, 2001.
6. Boszko J., Struktura organizacyjna przedsiębiorstwa i drogi jej optymalizacji, WNT, Warszawa 1973.
7. Ragin-Skorecka K., Grzelczak A., Motała D., Podstawy zarządzania nie tylko dla logistyków, Wydawnictwo WSB, Poznań 2017.

Additional bibliography:

1. Muhlemann A., Oakland J., Lockyer K., Zarządzanie. Produkcja i usługi, PWN , Warszawa, 2001.
2. Pająk E., Zarządzania produkcją, Wydawnictwo Naukowe PWN, Warszawa 2017.
3. Durlik I., Inżynieria zarządzania, AMP WN, Katowice, 1993.

Result of average student's workload

Activity	**Time (working hours)**
1. Participation in lectures	12
2. Participation in project and laboratory	20
3. Consultation	28
4. Independent problem solving	30
5. Preparing to exam	18
6. Exam	2

Student's workload

Source of workload	**hours**	**ECTS**
Total workload	100	4
Contact hours	52	2
Practical activities	20	1