

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Production Planning and Control		Code 1011105321011118900
Field of study Logistics - Part-time studies - Second-cycle	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty Corporate Logistics	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: Second-cycle studies	Form of study (full-time,part-time) part-time	
No. of hours Lecture: 16 Classes: - Laboratory: - Project/seminars: 16		No. of credits 5
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art		ECTS distribution (number and %)
Responsible for subject / lecturer: dr hab. inż. Łukasz Hadaś email: lukasz.hadas@put.poznan.pl tel. (61) 665 34 01 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student knows the basic concepts related to the management of production
2	Skills	The student has the ability to perceive and interpret the facts taking place in the sphere of production
3	Social competencies	The student understands the responsibility for decisions related to planning and shop floor control of production
Assumptions and objectives of the course: Getting to know the basics of the issues relevant to the field of production planning, presentation production planning system and shop floor control. Realization of the project system for planning and shop floor control.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. The student characterized decisions on the levels of production planning and shop floor control - [K2A_W02] 2. The student explains rules of formation and types of GHP - [K2A_W05] 3. The student characterized basic rules and methods of controlling the flow of material streams - [K2A_W08] 4. The student explains the basic concepts: model of production control, disruptions, time and buffer stock, the operational model - [K2A_W09] 5. The student describes the MRPII logic of planning - [K2A_W12] 6. The student characterized typical structure of production planning - [K2A_W13]		
Skills:		
1. The student is able to present solution of the a developed production planning system - [K2A_K04] 2. The student has the ability to self-propose solutions of specific problem in the area of production planning and shop floor control - [K2A_U05] 3. The student can design a process indicators analysis to evaluate the proposed production planning system - [K2A_U09] 4. The student can formulate task of building the system of production planning and shop floor control - [K2A_U17] 5. The student can design a production planning system for specific organizational conditions - [K2A_U19]		
Social competencies:		
1. The student is aware of their responsibility for their own work and the willingness to subordinate with the rules of teamwork and take responsibility in the group of project - [K2A_K03]		

Assessment methods of study outcomes		
<p>Formative assessment: a) For the project: on the basis of progress in the implementation stages of the project, and knowledge of the issues necessary to carry b) for the lecture: on the basis of answers to questions about the topics covered in previous lectures</p> <p>Recapitulative assessment: a) For the project: on the basis of (1) the quality of the project (2) answers to questions about the project b) for the lecture: on the basis of exam - written work on the issues discussed during the lecture. The exam can be applied after obtaining the ratings of the project and the laboratory. The exam is passed, after giving the correct answers to most questions</p>		
Course description		
<p>Lecture:</p> <p>Overview of the typical planning structure for a manufacturing company.</p> <p>Discuss production planning decisions at the level; strategic, tactical and operational. Decisions in the field of production planning at the level of: finished goods, components and operations. Create a Master Production Schedule (GHP). "Forward" and "backward" planning. Model MRPII. The essence of production control and control principles, together with methods of inter-departmental and intra-departmental production control, is discussed.</p> <p>Project: Project: Creation of the planning and shop floor control system for the fixed production and organizational conditions including the planning at the level of finished goods, components and operations. Creation of a system of indicators (controlling) for the manufacturing process.</p> <p>Didactic methods: Lecture: information lecture, problem lecture Project - realization of a multi-stage practical task.</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> Hadaś Ł., Fertsch M., Cyplik P., Planowanie i sterowanie produkcją, Wydawnictwo Politechniki Poznańskiej, Poznań, 2012 Senger Z., Sterowanie przepływem produkcji, Wydawnictwo Politechniki Poznańskiej, Poznań, 1998 Fertsch M., Podstawy zarządzania przepływem materiałów w przykładach, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 2003 Brzeziński M., Organizacja i sterowanie produkcją. Projektowanie systemów produkcyjnych i procesów sterowania produkcją, Agencja Wydawnicza Placet, Warszawa 2002. 		
<p>Additional bibliography:</p> <ol style="list-style-type: none"> Liker J. K., Droga Toyoty. 14 zasad zarządzania wiodącej firmy produkcyjnej świata, MT Biznes, Warszawa 2005 Goldratt E., Cox J., Cel. Doskonałość w produkcji, WERBEL, Warszawa 2000 		
Result of average student's workload		
Activity	Time (working hours)	
1. Lecture	16	
2. Project	16	
3. Own work	48	
4. Consultation	20	
5. Preparing to pass exam	25	
Student's workload		
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	12	2
Practical activities	16	1