		STUDY MODULE D	ESCRIPTION FORM				
Name o (-)	f the module/subject			Code 1011105421011118900			
Field of study			Profile of study	Year /Semeste	er		
Logistics - Part-time studies - Second-cycle			(general academic, practical) (brak)		1/2		
Elective path/specialty Corporate Logistics			Subject offered in: Polish		oulsory, elective) ctive		
Cycle of		Ŭ	Form of study (full-time,part-time)				
	Second-c	ycle studies	part-time				
No. of h	ours			No. of credits			
Lectur	re: 16 Classes	s: - Laboratory: -	Project/seminars:	16	5		
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another f	,			
		(brak)		(brak)			
Educati	on areas and fields of sci	ence and art		ECTS distribut and %)	tion (number		
techr	nical sciences			5 100%			
	Technical scie	ences		5	100%		
Resp	onsible for subje	ect / lecturer:		11			
ema tel. Wyd	nż. Łukasz Hadaś ail: lukasz.hadas@put. (61) 665 34 01 Jział Inżynierii Zarządz Strzelecka 11 60-965 F	zania					
Prere	quisites in term	s of knowledge, skills and	d 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					
Assu	mptions and obj	ectives of the course:					
plannir		f the issues relevant to the field of rol, and their conditions of use. Re p floor control					
		mes and reference to the	educational results for	a field of stu	dy		
	vledge:						
 The student characterized decisions on the levels of production planning and shop floor control - [K2A_W02] The student explains the features of job shop and flow shop production units and their impact on internal logistics - 							
[K2A_\ 3. The		basic rules and methods of control	olling the flow of material stream	ms - [K2A W08]			
4. The	student explains the b	asic concepts: model of productio	0	• - •	operational		
	- [K2A_W09]	have for all and the set		0.0.000			
		basic functionality of the compute basic methods of production plan			dent demand		
6. The [K2A_\		basic methods of production plan		aont anu inuepen			
Skills							
 The student is able to present solution of the a developed production planning system - [K2A_K04] The student has the ability to self-propose solutions of specific problem in the area of production planning and shop floor control - [K2A_U05] 							
	-	process indicators analysis to eva					
		task of building the system of pro production planning system for sp			_U17]		

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]

2. The student is aware of the need to choose effective methods of production planning and shop floor control and their impact on competitiveness and entrepreneurship - [K2A_K06]

Assessment methods of study outcomes

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 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

Course description

Lecture: presentation of three basic concepts of production planning: global, hierarchical and successive. Planning decisions at the level of production: strategic, tactical and operational level. Planning decisions at the level of production: finished goods, components and operations.

Presented is the basic model of planning: a model MRP and MRPII. Presented is the concept of Lean Production with the 5phase implementation process. Discussed is the idea of shop floor control of the production, base control model and control principles (rules) and methods of interdepartmental and inter-departmental production control.

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.

Basic bibliography:

1. Hadaś Ł., Fertsch M., Cyplik P., Planowanie i sterowanie produkcją, Wydawnictwo Politechniki Poznańskiej, Poznań, 2012

2. Senger Z., Sterowanie przepływem produkcji, Wydawnictwo Politechniki Poznańskiej, Poznań, 1998

3. Fertsch M., Podstawy zarządzania przepływem materiałów w przykładach, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 2003

Additional bibliography:

1. Brzeziński M., Organizacja i sterowanie produkcją. Projektowanie systemów produkcyjnych i procesów sterowania produkcją, Agencja Wydawnicza Placet, Warszawa 2002.

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	30
2. Project	30
3. Own work	5
4. Preparing to pass exam	10

Student's workload

Source of workload	hours	ECTS
Total workload	75	5
Contact hours	60	3
Practical activities	30	2