		STUDY MODULE D		1	
	f the module/subject erial Flow Manag			Code 1011102311011117645	
Field of		studies - Second-cycle	Profile of study (general academic, practi (brak)	(general academic, practical)	
	path/specialty	porate Logistics	Subject offered in: Polish	Subject offered in: Course (compulsory, elect	
Cycle o	f study:		Form of study (full-time,part-tir	ne)	
Second-cycle studies			full-time		
No. of h	iours				No. of credits
Lectu	re: 15 Classes	s: - Laboratory: -	Project/seminars:	30	5
Status of	of the course in the study	program (Basic, major, other)	(university-wide, from anoth	er field)
		(brak)		(br	ak)
Educati	on areas and fields of sci	ence and art			ECTS distribution (number and %)
Resp	onsible for subj	ect / lecturer:	Responsible for sub	ject /	lecturer:
ema	ab. inż. Marek Fertscł ail: email: marek.fertsc 616653416		dr inż. Ireneusz Gania email: ireneusz.gania@put.poznan.pl tel. 616653385		
Wy	dział Inżynierii Zarządz 965 Poznań, ul. Strzel	Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań			
Prere	equisites in term	s of knowledge, skills an	d social competencie	es:	
1	Knowledge	Basic knowledge of production r	nanagement.		
2	Skills	The student has the skills in the subject production management.			
3	Social competencies	The student has the social skills of the subject Production management.			
Assu	mptions and obj	ectives of the course:			
	iliarize students with t ing the flow of materia	he nature and principles of materi als.	al flow management. Stude	nts ma	stering basic skills in
	Study outco	mes and reference to the	educational results f	or a	field of study
Knov	vledge:				
	ws the basic relations f logistics - [K2A_W04	hip between the sphere of technic]	al and economic characteris	stic of p	production flow sterring in the
2. has	in-depth knowledge of	f manufacturing engineering and i	ts links with the direction of I	ogistic	s - [K2A_W05]
3. knov	ws the basic concepts	in the context of producion flow s	terring being studied for the	logistic	cs - [K2A_W09]
		in the context of production flow s	• •	ogistic	s - [K2A_W09]
	• •	mapping and process orientation	• • •		
	- 1	ethods, tools and techniques spe	cific to the subject being stu	died fo	r the logistics - [K2A_W13]
Skills	5:				

1. can communicate using appropriate personal in a professional environment and in other environments, in terms of subject being studied - [K2A_U04]

2. discussion of the problem of foreign located within the subject being studied - [K2A_U05]

3. can design analysis process in relation to the problem of falling within the subject being studied - [K2A_U09]

4. can formulate and solve problems through interdisciplinary integration of knowledge in the fields and disciplines used in the design of logistic systems - [K2A_U10]

5. able to formulate and test hypotheses regarding the issues related to the design of logistics systems - [K2A_U11]

6. able to assess the usefulness and the usability of new developments (techniques and technologies) in logistics and functionally related areas - [K2A_U12]

7. can make a critical analysis of the technical solutions used in the logistic system analysis - [K2A_U15]

8. able to identify possible improvements in the reporting system of logistics - [K2A_U16]

Social competencies:

1. is aware of the responsibility for their own work and willingness to comply with the principles of teamwork and accountability for collaborative tasks - [K2A_K03]

2. depending able to see the cause and effect in achieving the set goals and make gradation significance of alternative or competing tasks - [K2A_K04]

Assessment methods of study outcomes

-Formulator Rating:

a) In terms of the project: on the basis of progress in the implementation phases of the project, and knowledge of the issues necessary for its implementation b) for the lecture: on the basis of answers to questions about issues to discuss in the previous lectures

Summary Rating:

a) In terms of the project: on the basis of (1) the quality of the merits of the project (2) The defense made the project b) for the lecture: on the basis of test - written work on the issues discussed in the lecture. Can take the exam after the assessments of the project and the laboratory. The exam is passed, after giving the correct answer to most of the substantive issues discussed

Course description

The lecture begins with a presentation of the essence of material flow management. The are two main variants of this process computerized model. Highlighted are the differences between the two models. Presented is the course and the main methods of material flow management control at the level of products and product components niezinformatyzowanej version. The presented method is material requirements planning (MRP) as the basis for managing the flow of materials at the level of the components of the computerized version of the products. Deals with the problem of integration and niezinformatyzowanego computerized variant? MRP integration? JiT. In class, students design project, according to the guidelines operator, selected material flow management system

At the laboratory students will learn the basics of computer aided material flow management. This laboratory operates on the basis of ERP? Navision Axapta system implemented for the purpose of teaching. In a series of exercises performed on the basis of this system, students go through the whole cycle of material flow management? from developing master production scheduling through production planning, supply planning and scheduling of deliveries

Teaching methods:

Information lecture (conventional) (information transfer in a systematic way) monographic (specialist).

Project method (individual or team implementation of large, multi-stage

cognitive or practical task resulting in the creation of a work).

Basic bibliography:

1. Zarządzanie produkcją, Dwiliński L., , Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2002

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

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

4. Zarządzanie przepływem materiałów, Fertsch M., Gania I., Wydawnictwo Politechniki Poznańskiej, Poznań 2011.

5. Podstawy zarządzania produkcją. Ćwiczenia, Kosieradzka A., (red.)., Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2008

Additional bibliography:

1. Krzyżaniak S., Podstawy zarządzania zapasami w przykładach, Poznań, Instytut Logistyki i Magazynowania, 2008.

2. Muhlemann A.P. Oakland AJ.S., Lockyer K.G.. Production and Operations Management Paperback ? Import, June 2, 1988

Result of average student's workload

Activity

Total workload	125	5
Source of workload	hours	ECTS
Student's wo	rkload	
5. exam preparation	15	
4. consultation	30	
3. projects		30
2. own work		35
1. lectures		15