_
۵
-
_
_
α
N
0
Ô
7
+
J
Q
₹
≥
>
2
~
• •
Q
Ξ
Ξ
모

		STUDY MODULE DI	ES	CRIPTION FORM			
Name of the module/subject Ecologistics				Code 1011101251011142999			
Field of study			Profile of study (general academic, practical) (brak)	Year /Semester 3 / 5			
	Logistics - Full-time studies - First-cycle studies Elective path/specialty			Subject offered in:	Course (compulsory, elective)		
Liootive	pathopoolatty	-		Polish	obligatory		
Cycle o	f study:		For	m of study (full-time,part-time)	,		
First-cycle studies				full-time			
No. of hours					No. of credits		
Lectu	re: 15 Classes	s: - Laboratory: 15		Project/seminars:	3		
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another field)		
		(brak)		(bı	(brak)		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techr	nical sciences			3 100%			
Technical sciences					3 100%		
Resp	onsible for subj	ect / lecturer:	Re	sponsible for subject	lecturer:		
dr hab. Jan Jabłoński, prof. nadzw. email: jan.jablonski@put.poznan.pl tel. 61 665 34 08 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań			1	mgr inż. Magdalena Graczyk email: magdalena.graczyk@put.poznan.pl tel. 61 665 33 95 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań			
Prere	equisites in term	s of knowledge, skills and	d so	ocial competencies:			
1	Knowledge	Has basic knowledge of environmental protection, logistics and organization and management sciences.					
2	Skills	Can Interpret and describe: phenomena that affect the company, its logistic processes and environmental protection. Can assess the manner of achieving goals while maintaining good relationships with partners and co-workers.					
3	Social competencies	Is aware of his/her knowledge of logistics, environmental protection and organization and management sciences and understands and analyses related basic social phenomena.					
Assu	mptions and obj	ectives of the course:					
		amiliarize students with the nature, ms of pro-ecological management			eting ecologically-oriented		
	Study outco	mes and reference to the	edi	ucational results for a	field of study		
Knov	vledge:						
manag 2. Kno	jement, systems desig	computer science (information tec in and ecologistics - [K1A_W10] hip existing in the logistics and the [K1A_W14]					

- 3. Can recognize the basic phenomena characteristic of logistics and ecologistics and environmentally friendly production processes management [K1A_W16]
- 4. Can make basic relations existing in the logistics, ecologistics and pro-ecological production management [K1A_W18]
- 5. Can describe best practices in the management of ekologistykiecologistics and pro-ecological supply chain management [K1A_W20]

Skills:

Faculty of Engineering Management

- 1. Can search on the basis of literature and other sources and present in orderly way information on the issue falling within the ekologistics and environmentally friendly supply chain management [K1A_U01]
- 2. Can present with appropriate means issue falling within the ekologistics relating to environmental protection aand logistics [K1A U02]
- 3. Has the necessary preparation to work in an industrial environment, and know safety rules for the job in safety problems in ekologistics [K1A_U11]
- 4. Able to assess in economic terms specific problem, which forms part of ekologistics and environmentally friendly supply chain management [K1A_U12]
- 5. Can make a critical analysis of the phenomenon within the ekologistics and environmentally friendly supply chain management [K1A_U13]
- 6. Can design using appropriate methods and techniques for building such a system or process that meets the requirements within the general framework within ekologistics and environmentally friendly supply chain management [K1A_U16]

Social competencies:

- 1. Is aware of his/her knowledge and skills in the area of environmental protection and logistics, and understands the need for continuous improvement [K1A_K01]
- 2. Is aware of the importance of eco-friendly approach in management and daily life in maintaining and developing social and economic bonds at different levels [K1A_K02]
- 3. Is prepared to actively participate in groups and organizations undertaking activities related to environmental protection and recycling of waste materials in the economy [K1A_K03]
- 4. can correctly identify and resolve the dilemmas associated with the profession of logistics in the ekologistyki [K1A_K05]

Assessment methods of study outcomes

Forming assesment

a) the project- discussion on solutions that wants to propose in the project b) a lecture on the basis of answers to questions concerning the material discussed in the previous lecture

summary assessment

- labs a) based on a public presentation of the results and discussion about them, b) on the basis of the substantive quality of the written raport
- in a lecture at the public presentation on a given topic and answer questions concerning the material discussed in the lecture

Course description

The course covers the following topics:

- 1) The Framework eco-logistics.
- 2) Logistics orientation on waste management system.
- 3) The processes of recycling waste materials in the economy.
- 4) Ecological balances in logistic systems.
- 5) Logistics of communal waste disposal.
- 6) Design of recycling-oriented products.
- 7) Environment-friendly management systems.
- 8) Environmental aspects of transport policy of the European Union

Basic bibliography:

- 1. Korzeniowski A., Skrzypek M., Ekologistyka zużytych opakowań, Instytut Logistyki i Magazynowania, Poznań, 1999.
- 2. Korzeń Z., Ekologistyka, Instytut Logistyki i Magazynowania, Poznań , 2001.
- 3. Jabłoński J., Zarządzanie środowiskowe jako warunek ekologizacji przedsiębiorstwa. próba modelu teoretycznego, WPP, Poznań, 2001.
- 4. J. Jabłoński (red.), Technologie "zero emisji", WPP, Poznań 2011
- 5. Jakowski S., Projekt nowelizacji zasad projektowania opakowań transportowych, Centralny Ośrodek Badawczo-Rozwojowy Opakowań, Warszawa , 2003.
- 6. Kowalski Z., Kulczycka J., Góralczyk M., Ekologiczna ocena cyklu życia procesów wytwórczych, PWN, Warszawa 2007.

Additional bibliography:

- 1. Górski M., Prawo ochrony środowiska, Wolters Kluwer Polska, Warszawa, 2009.
- 2. Kwaśnicka K., Odpowiedzialność administracyjna w prawie ochrony środowiska, Wolters Kluwer Polska, Warszawa, 2011.
- 3. Radecki W., Ustawa o odpadach. Komentarz. Wolters Kluwer Polska, Warszawa, 2009. 4. Ochrona środowiska przyrodniczego. Dobrzańska B., Dobrzański G., Kiełczewski D., Wydawnictwo Naukowe PWN, 2008.

Result of average student's workload

Activity	Time (working
Activity	hours)

1

Practical activities

http://www.put.poznan.pl/

Poznan University of Technology Faculty of Engineering Management

1. Lectures	15					
2. Labs	15					
3. Preparing to pass the exam from lectures	15					
4. Preparing to pass the laboratories	20					
5. Consultation	10					
Student's workload						
Source of workload	hours	ECTS				
Total workload	75	3				
Contact hours	40	2				

30