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Course (compulsory, elective)

obligatory

3

ECTS distribution (number

3/5

Year /Semester

No. of credits

Name of the module/subject

Field of study

Transport

Cycle of study:

No. of hours

Lecture:

Elective path/specialty

2

Education areas and fields of science and art

dr inż. Łukasz Wojciechowski

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MRiT

Responsible for subject / lecturer:

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Organization and Equipment of Food Warehouses

Food Transport

1

Laboratory:

First-cycle studies

(brak)

Classes:

Status of the course in the study program (Basic, major, other)

1	Knowledge	The knowledge concerning the basis of food industry engineering and properties of food sector products.
2	Skills	Student is able to identify basic functions of food warehouses.
3	Social competencies	Student has consciousness that proper storing of food products lets to protect them against spoiling.
Assı	imptions and obj	ectives of the course:
Stude	nts are acquainted with	n the basic rules of the food warehousing and the most important equipment of food warehouses.
	Study outco	mes and reference to the educational results for a field of study
Knov	wledge:	
		cally founded knowledge in the field of food warehousing (reloading, storing and picking). Knows and is able to their application to different food products [[K2A_W09]]
		cally founded knowledge in the field of storing devices, especially in the field of racks and their riterions [[K2A_W09]]
trucks		cally founded knowledge in the field of internal transportation means. Knows basic types of forklift oplying in the food warehousing? is able to recognize them and characterize their structure and A_W09]]
Skills	s:	"
	able to calculate: dimen	isions of transport pathways and aisles in warehouses, forklift trucks and stacker cranes demand, c [[K2A_U14]]
Socia	al competencies:	
		ids the specific rules concerning food warehousing and necessity of application the specific ind of warehouses [[K2A_K02]]
equipr		
equipr		

STUDY MODULE DESCRIPTION FORM

Profile of study

Subject offered in:

Form of study (full-time,part-time)

Project/seminars:

(brak)

(general academic, practical)

Polish

(university-wide, from another field)

full-time

(brak)

and %)

Course description

Faculty of Working Machines and Transportation

Basic information concerning logistics systems, supply chains, warehousing and storing. Types and classification of warehouses. The most important storing and picking technologies. Types, classification and structure of storing devices. Types, classification and structure of internal transportation means. Types, classification and equipment of reloading fronts. Calculation of dimensions of transport pathways and aisles in warehouses. Calculation of quantity of forklift trucks and stacker cranes in warehouses. Calculation of quantity of reloading docks in warehouse. Calculation of dimensions of pallet and cantilever racks. Principles of warehouse designing.

Basic bibliography:

- 1. Korzeń Z.: Logistyczne systemy transportu bliskiego i magazynowania, Tom I: Infrastruktu-ra, technika, informacja, Inst. Logistyki i Magazynowania, Poznań, 1998
- 2. Korzeń Z.: Logistyczne systemy transportu bliskiego i magazynowania, Tom II: Projekto-wanie, modelowanie, zarządzanie, Inst. Logistyki i Magazynowania, Poznań, 1998
- 3. Frazelle E.H.: World-class warehousing and material handling, Logistics Management Li-brary, McGraw-Hill Companies, 2002
- 4. Fertsch M. [red.]: Podstawy logistyki, Inst. Logistyki i Magazynowania, Poznań, 2006
- 5. Tompkins J.A., Smith J.D. [red.]: The warehouse management handbook, Tompkins Press, Raleigh, 1998

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Udział w wykładzie	30
2. Udział w ćwiczeniach	15
3. Konsultacje	10
4. Utrwalenie treści	5
5. Przygotowanie do zaliczenia	18
6. Udział w zaliczeniu	8

Student's workload

Source of workload	hours	ECTS	
Total workload	83	3	
Contact hours	63	3	
Practical activities	0	0	