1010611251010615311

Year /Semester

Code

Name of the module/subject

Field of study

Transport		(brak)	3/5			
Food Transport			Subject offered in:	Course (compulsory, elective)		
			Polish	obligatory		
Cycle o	f study:		Form of study (full-time,part-time)			
First-cycle studies			full-time			
No. of hours				No. of credits		
Lectu	re: 1 Classes	s: - Laboratory: 1	Project/seminars:	3		
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another field)		
		(brak)	(brak)			
Education areas and fields of science and art				ECTS distribution (number and %)		
Responsible for subject / lecturer: Responsible			Responsible for subject /	lecturer:		
dr inż. Przemysław Tyczewski			dr inż. Arkadiusz Stachowiak			
email: przemyslaw.tyczewski@put.poznan.pl tel. 6652655			email: arkadiusz.stachowiak@put.poznan.pl tel. 6652655			
MR			MRiT			
ul. I	Piotrowo 3, 60-695 Po	znań	ul. Piotrowo 3, 60-695 Poznań			
Prere	equisites in term	ns of knowledge, skills and	d social competencies:			
1	Knowledge	Knowledge of technical drawing and numerical methods as carried out in the course of their studies. Knowledge of technical drawings and numerical methods on required area of expertise.				
2	Skills	Student can: prepare a scheme of arrangement, choose right components and perform basic calculations using provided calculation procedure.				
3	Social competencies	Student understands the need for continuous learning.				
Assu	mptions and obj	jectives of the course:				
Using calcula		ol to create technical documentation	on. Formation the ability to create c	computer tools to aid design		
	Study outco	mes and reference to the	educational results for a	field of study		
Knov	vledge:					
1. Stud	dent knows basic featu	ures and functions of AutoCAD and	d drawing and modyfication tools.	- [K1A_W12]		
2. Stud	dent knows how to cre	ate basic Delphi code [K1A_W1	2]			
Skills	S:					
	· ·	create computer-aided design too	• – -			
2. Student can create computer program to solve given problem [K1A_U13 K1A_U14]						
	al competencies:					
1. Stud	dent is able to think an	id act creatively [K1A_K05]				

STUDY MODULE DESCRIPTION FORM

Profile of study

(general academic, practical)

Computer aided design of technological and refrigeration systems

Assessment methods of study outcomes

Course description

Knowledge of basic features and functions of AutoCAD. Drawing and modyfication tools. Working with functions: hatching, filling. Tools to support the dimensioning. Practice of Delphi programming? creating computer-aided design tools. Features of the Delphi (types of components). Creating basic Delphi code. Use complex instructions in Delphi. Creating computer

Examination based on an ongoing review of the Students preparation.

program based on sample calculation algorithm.

Faculty of Working Machines and Transportation

Basic bibliography:

- 1. Pikoń A., AutoCad 2007 PL. Helion, Warszawa, 2007.
- 2. Reisdorph K., Delphi 6 dla każdego. Helion, Warszawa, 2001.
- 3. Tor A., Excel 2002/XP. Visual Basic. TORTECH, Warszawa 2004.

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Participation in lecture	15
2. Consolidation on lecture	6
3. Consultations	8
4. Participation in laboratories	15
5. Consolidation of laboratories/Raport	6
6. Exam preparedness	8
7. Participation in the exam	8

Student's workload

Source of workload	hours	ECTS		
Total workload	66	3		
Contact hours	46	2		
Practical activities	33	1		