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Course (compulsory, elective)

obligatory

7

3/5

Year /Semester

No. of credits

**Mechanical Engineering** 

Name of the module/subject

Computer Aided Design

Elective path/specialty

Field of study

Cycle of study:

No. of hours

Lecture:

First-cycle studies

Classes:

program based on sample calculation algorithm.

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

**Heavy Machinery** 

		(brak)	(brak)	
Educa	ation areas and fields of s	cience and art	ECTS distribution (number and %)	
Res	ponsible for sub	ject / lecturer:	I .	
en tel W	hab inż. Arkadiusz Stanail: arkadiusz.stachow I. 665-2655 IMRiT . Piotrowo 3 Poznań			
Prei	requisites in terr	ns of knowledge, skills and social comp	petencies:	
1	Knowledge	Knowledge of technical drawing and numerical me studies. Knowledge of technical drawings and nur 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 lear	ning.	
Ass	sumptions and ob	jectives of the course:		
	g AutoCAD as aided to llations.	ol to create technical documentation. Formation the	ability to create computer tools to aid design	
	Study outco	omes and reference to the educational	results for a field of study	
Kno	wledge:			
	udent knows basic fea Delphi code [K1A	tures and functions of AutoCAD and drawing and mo _W12]	dyfication tools. Student knows how to create	
Skil	ls:			
	udent can use Delphi t lem [K1A_U13 K1A	o create computer-aided design tools. Student can c \_U14]	reate computer program to solve given	
Soc	ial competencies	::		
1. Stu	udent is able to think a	nd act creatively [K1A_K05]		
		Assessment methods of study of	utcomes	
Exam	nination based on an o	ngoing review of the Students preparation.		
		Course description		

STUDY MODULE DESCRIPTION FORM

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Laboratory:

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

2

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

# **Faculty of Working Machines and Transportation**

## Basic bibliography:

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

## Additional bibliography:

#### Result of average student's workload

Activity	Time (working hours)
1. Preparation for laboratory	28
2. Participation in laboratory exercises	30
3. Capturing the content of the lab exercises and a report	29
4. Preparing for classes of design	15
5. Participation in the activities of design	30
6. Preparation of the draft	30
7. Consultation	8
8. Preparing to pass	8

#### Student's workload

Source of workload	hours	ECTS
Total workload	177	7
Contact hours	68	3
Practical activities	177	7