Knowled	ge:
	knows basic features and function i code [K1A_W12]
Skills:	
	can use Delphi to create compute - [K1A_U13 K1A_U14]
Social co	ompetencies:
1. Student i	s able to think and act creatively.
	Assess
Examination	Assess
Examination	

	STUDY MODULED	ESCRIPTION FORM			
Name of the module/subject Computer Aided Des		C	Code 010621151010640508		
Field of study	_	Profile of study (general academic, practical)	Year /Semester		
Mechanical Engineer	ring	(brak)	3/5		
Elective path/specialty			Course (compulsory, elective)		
	Virtual Design Engineering		obligatory		
Cycle of study: For		orm of study (full-time,part-time) full-time			
No. of hours			No. of credits		
Lecture: - Classes	s: - Laboratory: 2	Project/seminars: 2	7		
Status of the course in the study		(university-wide, from another fiel	d)		
	(brak)	(b	orak)		
Education areas and fields of sci	ence and art		ECTS distribution (number and %)		
technical sciences			7 100%		
Responsible for subje	ect / lecturer:				
dr hab inż. Arkadiusz Stad email: arkadiusz.stachowi tel. 665-2655 WMRiT ul. Piotrowo 3 Poznań					
Prerequisites in term	s of knowledge, skills an	d social competencies:			
1 Knowledge	1 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.				
Assumptions and obj	ectives of the course:				
Using AutoCAD as aided too calculations.	l to create technical documentation	n. Formation the ability to create	computer tools to aid design		
Study outco	mes and reference to the	educational results for a	field of study		
Knowledge:					
Student knows basic feature basic Delphi code [K1A_\]	res and functions of AutoCAD and	d drawing and modyfication tools	. Student knows how to create		
Skills:	-				
1. Student can use Delphi to problem [K1A_U13 K1A_	create computer-aided design too	ols. Student can create computer	program to solve given		

Assessment methods of study outcomes

- [K1A_K05]

based on an ongoing review of the Students preparation.

Course description

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

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