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		STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject Computer Aided Design				Code 1010621151010640508	
Field of	study		Profile of study (general academic, practical)	Year /Semester	
Mechanical Engineering			(brak)	3/5	
Elective path/specialty			Subject offered in:	Course (compulsory, elective)	
		Combustion Engines	Polish	obligatory	
Cycle o	f study:		Form of study (full-time,part-time)		
First-cycle studies			full-time		
No. of h	iours			No. of credits	
Lectu	re: - Classes	s: - Laboratory: 2	Project/seminars:	2 7	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another fie	eld)	
		(brak)	(brak)	
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
technical sciences				7 100%	
tecin	iicai sciences			7 10076	
Doon	ancible for cubic	not / looturor.			
-	onsible for subj				
	ab inż. Arkadiusz Stad				
	ail: arkadiusz.stachowi 665-2655	ak@put.poznan.pi			
WM					
ul. F	Piotrowo 3 Poznań				
Prere	equisites in term	s of knowledge, skills an	d social competencies:		
1 Knowledge of technical drawing and numerical methods as carried ou studies. Knowledge of technical drawings and numerical methods on					
'	Miowicage	studies. Knowledge of technical expertise.	drawings and numerical method	is on required area or	
2	Claille	Student can: prepare a scheme		mponents and perform basic	
2	Skills	calculations using provided calculation procedure.			
3	Social	Student understands the need for continuous learning.			
Ü	competencies				
Assu	mptions and obj	ectives of the course:			
Using a		ol to create technical documentation	on. Formation the ability to create	e computer tools to aid design	
	Study outco	mes and reference to the	educational results for	a field of study	
Knov	vledge:				
	dent knows basic featu Delphi code [K1A_\	res and functions of AutoCAD and W12]	d drawing and modyfication tools	s. Student knows how to create	
Skills	s:				
		create computer-aided design too	ols. Student can create compute	r program to solve given	
proble	m [K1A_U13 K1A_	_U14]			

Assessment methods of study outcomes

- [K1A_K05]

Examination based on an ongoing review of the Students preparation.

Social competencies:

1. Student is able to think and act creatively.

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 program based 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