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		STUDY MODULE DE	SCRIPTION FORM			
Name o	of the module/subject	OTODT MODULE DI		Code		
Eng	ineering Drawin	g and CAD	1	010101221010134899		
Field of study			Profile of study (general academic, practical)	Year /Semester		
Environmental Engineering First-cycle Studies			s (brak)	1/2		
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of study:			Form of study (full-time,part-time)	<u> </u>		
First-cycle studies			full-time			
No. of hours				No. of credits		
Lecture: - Classes: - Laboratory: -			Project/seminars: 3	0 2		
Status	of the course in the study	y program (Basic, major, other) (brak)	(university-wide, from another fie	^{ld)} orak)		
Educati	ion areas and fields of so	cience and art		ECTS distribution (number and %)		
techi	nical sciences			2 100%		
Technical sciences				2 100%		
Resp	onsible for subj	ject / lecturer:	Responsible for subject	/ lecturer:		
	nż. Fabian Cybichows ail: fabian.cybichowsk		dr inż. Julian Skiba email: julian.skiba@put.pozr	an.pl		
tel.	665 24 14		tel. 61 6652078			
		ronmental Engineering	Faculty of Civil and Environmental Engineering			
	Piotrowo 5 60-965 Po		ul. Piotrowo 5 60-965 Pozna	n		
Prere	equisites in tern	ns of knowledge, skills and	d social competencies:			
1	Knowledge	Basic knowledge about Windows operating system.				
2	Skills	Ability to use PC and Windows operating system.				
3	Social competencies	Awareness of the need to constantly update and supplement knowledge and skills.				
Δεςι	•	jectives of the course:				
		ry to prepare 2D drawings using Au	toCAD.			
	Study outco	omes and reference to the	educational results for a	i field of study		
Knov	vledge:					
		nowledge about AutoCAD interface	- [K_W07]			
2. Diffe	erent methods of data	a input during object drawing - [K_W	/07]			
3. Met	hods of modifying obj	ects - [K_W07]				
4. Hov	v to create and modify	/ layers - [K_W07]				
5. Met	hods of precise drawi	ng - [K_W07]				
6. Additional commands for navigating and creating drawings - [K_W07]						
7. Knowledge about basic program preferences - [K_W07]						
8. How to add and edit comments - [K_W07]						
	v to add and edit dime	ensions - [K_W07]				
	w to print - [K_W07]					
Skills	s:					

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- 1. Using program interface [K_U01]
- 2. Drawing and modifying objects [K_U01]
- 3. Working with layers [K_U01]
- 4. Using different tools for precision drawing [K_U01]
- 5. Using additional tools for working with drawings [K_U01]
- 6. Editing program preferences [K_U01]
- 7. Adding and editing comments [K_U01]
- 8. Adding and editing dimensions [K_U01]
- 9. Printing [K_U01]

Social competencies:

Assessment methods of study outcomes

Test drawings during the course.

Course description

Basics of using AutoCAD: program interface, working with 2D drawings, coordinates, layers, drawing and modifying objects, comments, dimensions, additional tools, printing, changing preferences.

Basic bibliography:

- 1. Andrzej Pikoń AutoCAD 2006 i 2006 PL Helion Gliwice 2006
- 2. Andrzej Pikoń AutoCAD 2007 PL Helion Gliwice 2007

Additional bibliography:

- 1. Janusz Graf AutoCAD 2005 i 2005 PL. Ćwiczenia praktyczne. Helion Gliwice 2005
- 2. Mirosław Babiuch AutoCAD 2007 i 2007 PL. Ćwiczenia praktyczne. Helion Gliwice 2007

Result of average student's workload

Activity	Time (working hours)
1. Participation in classes	30
2. Additional assignments	15

Student's workload

Source of workload	hours	ECTS
Total workload	45	2
Contact hours	30	1
Practical activities	15	1