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Skills:

		STUDY MODULE D	ESCRIPTION FOR	RM		
Name of the module/subject  Engineering Drawing and CAD			<u> </u>	Code 1010101221010134899		
Field of		•	Profile of study	e n	Year /Semester	
Envi	ronmental Engir	neering First-cycle Studie	(general academic, pra	acticai)	1/2	
	e path/specialty	-	Subject offered in: Polish		Course (compulsory, elective) <b>obligatory</b>	
Cycle o	f study:		Form of study (full-time,part	t-time)	, ,	
First-cycle studies				full-time		
No. of h	nours				No. of credits	
Lectu	re: - Classe:	s: - Laboratory: -	Project/seminars:	30	2	
Status	•	program (Basic, major, other)	(university-wide, from an			
		(brak)		(br		
Educati	on areas and fields of sci	ence and art			ECTS distribution (number and %)	
techi	nical sciences				2 100%	
tecili	Technical sciences	neae			2 100%	
	recillical Scie	ences			2 100 /6	
Resp	onsible for subj	ect / lecturer:				
dr inż. Tomasz Schiller email: tomasz.schiller@put.poznan.pl tel. 616652078 Faculty of Civil and Environmental Engineering						
	Piotrowo 5 60-965 Poz					
Prere	equisites in term	s of knowledge, skills an	d social competend	cies:		
1	Knowledge	Basic knowledge about Window	s operating system.			
2	Skills	Ability to use PC and Windows of	operating system.			
3	Social competencies	Awareness of the need to consta	antly update and supplem	ent know	ledge and skills.	
Assu	mptions and obj	ectives of the course:				
Learni	ng the skills necessary	y to prepare 2D drawings using Au	itoCAD.			
	Study outco	mes and reference to the	educational result	s for a	field of study	
Knov	vledge:					
		owledge about AutoCAD interface	e - [K_W07]			
Different methods of data input during object drawing - [K_W07]						
3. Methods of modifying objects - [K_W07]						
4. How to create and modify layers - [K_W07]						
5. Methods of precise drawing - [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]  9. How to add and edit dimensions - [K_W07]						
		nsions - [K_WU/]				
10. How to print - [K_W07]						

# Faculty of Civil and Environmental Engineering

- 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. Participation in consultations	2
3. Additional assignments	20

### Student's workload

Source of workload	hours	ECTS				
Total workload	50	2				
Contact hours	32	1				
Practical activities	50	1				