STUDY MODULE DESCRIPTION FORM

Name of the module/subject **(-)**			Code **1010101221010104899**
Field of study **Environmental Engineering First-cycle Studies**	Profile of study (general academic, practical) **(brak)**		Year /Semester **1 / 2**
Elective path/specialty **-**	Subject offered in: **Polish**		Course (compulsory, elective) **obligatory**
Cycle of study: **First-cycle studies**	Form of study (full-time,part-time) **full-time**		

No. of hours				No. of credits **2**
Lecture: **-** Classes: **-** Laboratory: **-** Project/seminars: **30**				
Status of the course in the study program (Basic, major, other) **(brak)**	(university-wide, from another field) **(brak)**			
Education areas and fields of science and art			ECTS distribution (number and %**)**	

Responsible for subject / lecturer:

dr inż. Julian Skiba
email: julian.skiba@put.poznan.pl
tel. 61 6652078
Faculty of Civil and Environmental Engineering
ul. Berdychowo 4 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Getting started with the PC In the Windows operating system.
2	**Skills**	Getting started with the PC In the Windows operating system.
3	**Social competencies**	The use of computer technology accelerates and simplifies the design process especially in parts of the video

Assumptions and objectives of the course:

Mastering the ability to perform the drawings in the CAD.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. 2.   Student knows how to operate the program CAD - [] - [-]

Skills:

1. 2.   Ability to perform drawings in CAD - [] - [-]

Social competencies:

1. 2.   Awareness of the need to acquire and extend knowledge to solve problems competently design, technology and performance in the field of environmental engineering and participate in the development of technical progress. - []] - [-]

Assessment methods of study outcomes

Test drawings

Evaluation criteria:

more than 100 points excelled

91?100 very good (A)

81? 90 good plus (B)

71? 80 good (C)

61? 70 satisfactory plus (D)

51? 60 satisfactory (E)

 50 and below inadequate (F)

Course description

-Basics of using AutoCAD 2006 PL: 2D drawings, communicating with the program, vector graphics, coordination system, creating a new drawing, layer management, drawing and editing tools, objects, viewing tools, dimensions, printing, program options, configuring the program.

Basic bibliography:

1. Andrzej Pikoń AutoCAD 2006 i 2006 PL Helion Gliwice 2006

2. Andrzej Pikoń AutoCAD 2007 PL Helion Gliwice 2007

3. Janusz Graf AutoCAD 2005 i 2005 PL. Ćwiczenia praktyczne. Helion Gliwice 2005 Drawings controls. Drawings controls.

4. Mirosław Babiuch AutoCAD 2007 i 2007 PL. Ćwiczenia praktyczne. Helion Gliwice 2007

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Participation in design classes	30
2. Prepare to complete the course	15

Student's workload

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