

## MODULE INFORMATION SHEET

<b>Name of Module Unit</b>	<b>Informatics I</b>
Name in Polish language	Informatyczne podstawy projektowania
Module type	Compulsory
Form of studying	full-time day courses
Level of study	undergraduate course (B.Sc. level)
Type of study ( for extra-mural courses)	-
Programme	Environmental Engineering
Speciality	Environmental Engineering
Responsible department	Department of Informatics and Environment Quality Research
Responsible person	dr inż. Mariusz Rogulski

Semester	Lectures(E)	Tutorials	Laboratory	Computer Exercises	Projects	ECTS
3	15			30		3

### Objectives (summary)

The main purpose of the lecture is to instruct how to work in AutoCAD. There will be described tools and technics, which serve to efficient creation of correct 2D drawings. There are: drawing tools, modifying tools and technics which aid to accurate drawing. Beside it will be presented: layers, blocks, properties of objects, creating dimensions by using different types of dimensions, defining dimension style, text, using viewports, preparing drawings for printing, introduction to creation 3D drawings.

### Prerequisites

Basic high school knowledge

### Rules of integrated grade setting

Mark based on sum of points from exercises and tests during lectures and computer exercises.

### Recommended readings

Auto CAD software documentation

### Contents of lectures (syllabus)

	Topics	Time (hrs.)	Scope (S / Ex)
1	Introduction to AutoCAD, way of working in the program, using of help, setting of parameters, elements of window application, creation drawings by using templates.	2	S
2	The AutoCAD co-ordinate systems, drawing tools.	2	S
3	Modification tools, viewing tools.	2	S
4	Properties of objects, defining linetypes, layers	2	S

5	Using of snaps, internal and external blocks, using of viewports for creating worksheets intended to be printed.	2	S/Ex
6	Text, styles of text, hatching	2	S/Ex
7	Dimensions, creation of dimension styles.	2	S/Ex
8	Introduction to creation 3D objects, test	1	
<b>Total</b>		<b>15</b>	<b>Hours</b>

S – topics listed in the legal study programme standards from 12.07.2007  
Ex – extended topics

### Lecturers

dr inż Mariusz Rogulski
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### Assessment method

Test at the end of lectures.
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### Contents of computer exercises

	Topics	Time (hrs.)	Scope (S / Ex)
1	Introduction to AutoCAD environment, using of help, setting of parameters, testing templates.	2	S
2	Creating drawings by using drawing tools and different co-ordinate systems.	2	S
3	Using of accurate drawing tools	2	S
4	Makings drawings by using modifying tools.	2	S
5	Defining line properties, properties of objects.	2	S
6	Creation drawings with dividing into layers.	2	S
7	Making drawings by using internal and external blocks.	2	S/Ex
8	Preparing drawings for printing	2	S
9	Putting text in created drawings.	2	S
10	Hatching	2	E
11	Methods of dimensioning drawings	2	S
12	Defining and using of dimension styles.	2	S/Ex
13	Making simple 3D drawings.	2	S
14	Tools of drawing analysis.	2	Ex
15	Ending test	2	S
<b>Total</b>		<b>30</b>	<b>hours</b>

S – topics listed in the legal study programme standards from 12.07.2007  
Ex – extended topics

### Persons responsible for computer exercises

dr inż. Mariusz Rogulski
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### Assessment method for computer exercises

Making drawings during computer exercises. Ending test.
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