STUDY MODULE DESCRIPTION FORM

Name of the module/subject **organization of information in the work of engineer**		Code **1010101211010138059**
Field of study **Environmental Engineering First-cycle Studies**	Profile of study (general academic, practical) **(brak)**	Year /Semester **1 / 1**
Elective path/specialty **-**	Subject offered in: **Polish**	Course (compulsory, elective) **elective**
Cycle of study: **First-cycle studies**	Form of study (full-time,part-time) **full-time**	
No. of hours Lecture: **30** Classes: **-** Laboratory: **-** Project/seminars: **-**		No. of credits **2**
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 **technical sciences**		ECTS distribution (number and %) **2 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Basic knowledge of polish language and mathematics on the level of secondary school.
2	**Skills**	Ability to preparation of oral or written answer for given subject.
3	**Social competencies**	Awareness of need to constantly update and supplement knowledge and skills.

Assumptions and objectives of the course:

To familiarize students with tools and means of passing information necessary for solving common practical problems encountered in environmental engineering.

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

Knowledge:

1. Student knows basic concepts about specificity of engineer work (effect achieved during lectures) - [K_W01]
2. Student knows means of collecting and processing information in order to pass them on to another (effect achieved during lectures) - [K_W01]
3. Student knows means of information presentation and communication (effect achieved during lectures) - [K_W01]

Skills:

1. Student can acquire data in order to formulate technical statements on a given topic (effect achieved during lectures) - [K_U01, K_U02, K_U05]
2. Student can prepare a short oral or written expression relating to the work of an engineer (effect achieved during lectures) - [K_U02, K_U05, K_U07]
3. Student can present data in a comprehensible graphics form (effect achieved during lectures) - [K_U02, K_U07]
4. The student can pass information to others in a way that is understandable (effect achieved during lectures) - [K_U02, K_U07]

Social competencies:

1. Student understands the need for teamwork in solving theoretical and practical problems (effect achieved during lectures) - [K_K03, K_K04]
2. Student sees the need for systematic increasing his skills and competences (effect achieved during lectures) - [K_K01]
3. Student is aware of information and knowledge worth (effect achieved during lectures) - [K_K07]

Assessment methods of study outcomes

Written final multianswer test (effects W1 to W3). Assessment of activity during lectures (effects U1 to U3).

Mark scale (percentage / mark): 0-40 ndst, 41-55 dst, 56-65 dst+, 66-75 db, 76-85 db+, 86-100 bdb

Course description

An explanation of the concepts concerning experiment, empirical data, logic and others specific to engineer work.
Working with information received by the engineer.
Preparation and presentation of oral and written expression.

Education method
Lectures (conversatory elements of lectures and brainstorming) using multimedia presentation.

Basic bibliography:

1. Schulz von Thun F., Langer I., Tausch R. Wyrażać się zrozumiale, Wydawnictwo WAM, Kraków 2004
2. Morreeale S.P., Spitzberg B.H., Barge J.K. Komunikacja między ludźmi. Motywacja, wiedza i umiejętności, Wydawnictwo Naukowe PWN, Warszawa 2007

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	30
2. Participation in consultations	1
3. Preparation for the exam	17
4. Presence at the exam	2

Student's workload

Source of workload	hours	ECTS
Total workload	50	2
Contact hours	33	1
Practical activities	0	0