![Wrocław University of Science and Technology - Doctoral School]

COURSE CARD

1. Basic information

Course name in English:	Reporting seminar in civil engineering, geodesy and transport CE
Course name in Polish:	Seminarium sprawozdawcze w inżynierii lądowej, geodezji i transporcie
Number of hours:	15
Type of course:	Reporting seminar of discipline
Form of course:	seminar
Code of course:	ILQ100331S/W02ILT-SD0024S
Course leader:	Dr hab. inż. Monika Podwórna, prof. uczelni
Faculty of the course leader:	W2 Faculty of Civil Engineering
Email address of the course leader:	piotr.ruta@pwr.edu.pl

Scientific discipline(s) assigned to the course (doctoral students representing the marked disciplines can participate in the course):	Architecture and urban planning	☐
	Automation, electronic, electrical engineering and space technologies	☐
	Information and communication technology	☐
	Biomedical engineering	☐
	Chemical engineering	☐
	Civil engineering, geodesy and transport	☒
	Materials engineering	☐
	Mechanical engineering	☐
	Environmental engineering, mining, and energy	☐
	Mathematics	☐
	Chemical sciences	☐
	Physical sciences	☐
	Management and quality studies	☐

2. Objectives

1. Refreshing the knowledge concerning the requirements which PhD theses must meet (acc. to the current regulations).

2. Developing skills of research results presentation using multimedia techniques.

3. Developing skills of preparing research and technical publications, with a special focus on the solid survey of relevant literature, and skills relating to the critical evaluation and presentation of research results.

4. Improving skills relating to public appearances, taking part in a discussion, defending one's own views and judging others and oneself.

5. Getting acquainted with the subject areas of the research conducted by other seminar participants.

3. Content
Detailed information about the course content, including topics and form of classes.

No.	Topic	Number of hours	Form of classes
1	Introduction to the course, course organization, crediting principles. Refreshing the knowledge concerning the requirements which PhD theses must meet (acc. to the current regulations)	1	seminar
2	Individual students' presentations related to the PhD thesis being prepared. Discussion	2	seminar
3	Individual students' presentations related to the PhD thesis being prepared. Discussion	2	seminar
4	Determining the schedule of students' speeches. Discussing the scope and form of presentation of papers	2	seminar
5	Individual students' presentations related to the PhD thesis being prepared. Discussion	2	seminar
6	Individual students' presentations related to the PhD thesis being prepared. Discussion	2	seminar
7	Individual students' presentations related to the PhD thesis being prepared. Discussion	2	seminar
8	Individual students' presentations related to the PhD thesis being prepared. Discussion	2	seminar

4. Prerequisites
List of prerequisites relating to knowledge, skills and other competences for course participants.

Prepare a multimedia presentation,
Synthetically present research results.

5. Learning outcomes
List of learning outcomes at level 8 of the Polish Qualifications Framework assigned to the course (mark the learning outcomes in the last column).

Symbol	Learning outcome	
	KNOWLEDGE. Doctoral student knows and understands:	
SzD_W3	the main trends in the development of the scientific or artistic disciplines covered in the curricula;	☐
SzD_W4	research methodology;	☒
SzD_W5	the rules for the dissemination of scientific results, including in open access mode;	☐
SzD_W6	the fundamental dilemmas of modern civilization;	☐

SzD_W7	the legal and ethical conditions of scientific activity;	☐
SzD_W8	the economic and other relevant conditions of scientific activity;	☐
SzD_W9	basic principles of knowledge transfer to the economic and social spheres and commercialisation of results of scientific activity and know-how related to these results.	☐
	SKILLS. Doctoral student is able to:	
SzD_U2	use knowledge from different fields of science or art to creatively identify, formulate and innovatively solve complex problems or perform research tasks, in particular: - define the purpose and subject of scientific research, formulate a research hypothesis, - develop research methods, techniques and tools, and use them creatively, - draw conclusions on the basis of scientific research; critically analyse and evaluate the results of scientific research, expertise and other creative work and their contribution to knowledge development; transfer the results of scientific activities to the economic and social spheres;	☒
SzD_U3	communicate on specialised topics to the extent that they enable an active participation in the international scientific community;	☒
SzD_U4	disseminate research results, including in popular forms;	☒
SzD_U5	initiate debates and participate in a scientific discourse;	☒
SzD_U6	be able to speak a foreign language at B2 level of the Common European Framework of Reference for Languages to a level that enables them to participate in the international scientific and professional environment;	☐
SzD_U7	plan and implement an individual or collective research or creative activity, including in an international environment;	☐
SzD_U8	independently plan and act for one's own development and inspire and organize the development of others;	☐
SzD_U9	plan classes or groups of classes and implement them using modern methods and tools.	☐
	SOCIAL COMPETENCES. Doctoral student is ready to:	
SzD_K3	fulfilling the social obligations of researchers and creators, initiate public interest activities, thinking and acting in an entrepreneurial way;	☐
SzD_K4	maintaining and developing the ethos of research and creative environments, including: - carrying out scientific activities in an independent manner, - respecting the principle of public ownership of research results, taking into account the principles of intellectual property protection.	☐

6. Evaluation

Short description of the method(s) used to evaluate the learning outcomes assigned to the course, e.g., exam, test, report, presentation, etc.

Presentation

7. Teaching methods

Short description of the teaching methods used during the course, e.g., multimedia presentation, discussion, literature studies, developing written documents, own work, etc.

1. Multimedia presentations.

2. Problem discussion in a group of PhD students.

3. Grading speakers, including grade justification.

4. Office hours.

8. Literature

List of primary and secondary literature used to prepare the course and including additional knowledge for participants, e.g., books, textbooks, research papers, standards, web pages, etc.

PRIMARY LITERATURE:

Literature depends on the subject of the prepared PhD thesis

SECONDARY LITERATURE:

in Polish

[1]   Wiszniewski A.: Jak pisać skutecznie? Wyd. Videograf II, 2003.
[2]   Żurek E.: The art of presentation or how to speak with the image (CD). Wyd. Poltex, 2008.
[3]   Grzybowski P., Sawicki K.: Writing articles and the art of their presentation. Wyd. Impuls, 2010.
[4]   Blein B.: The art of presentation and public speaking. Wyd. RM, 2010.

9. Other remarks

Additional remarks, comments, (e.g., language of the course)

Course in English