



COURSE CARD

1. Basic information

Course name in English:	Reporting seminar in civil engineering, geodesy and transport BE	
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:	ILQ100334S/W02ILT-SD0027S	
Course leader:	Prof. Wojciech Lorenc	
Faculty of the course leader:	W2 Faculty of Civil Engineering	
Email address of the course leader:	wojciech.lorenc@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	<input type="checkbox"/>
	Automation, electronic, electrical engineering and space technologies	<input type="checkbox"/>
	Information and communication technology	<input type="checkbox"/>
	Biomedical engineering	<input type="checkbox"/>
	Chemical engineering	<input type="checkbox"/>
	Civil engineering, geodesy and transport	<input checked="" type="checkbox"/>
	Materials engineering	<input type="checkbox"/>
	Mechanical engineering	<input type="checkbox"/>
	Environmental engineering, mining, and energy	<input type="checkbox"/>
	Mathematics	<input type="checkbox"/>
	Chemical sciences	<input type="checkbox"/>
	Physical sciences	<input type="checkbox"/>
Management and quality studies	<input type="checkbox"/>	

2. Objectives

1. Presenting general principles of writing doctoral dissertations, requirements for candidates to award PhD degree
2. Improving the ability to present the results of scientific research with the use of multimedia resources, developing skills in synthesizing the results achieved
3. Developing the ability to prepare scientific publications with particular emphasis on a fair literature review related to the research being conducted
4. Developing the skills of critical evaluation of research results
5. Improving the skills to participate in a scientific discussion and to defend the own position
6. Recognition of the subject of research conducted by other participants of the seminar
7. Shaping the ethical attitude and awareness of the social role of a young scientist, accountability and reliability in conducting scientific research



3. Content

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

No.	Topic	Number of hours	Form of classes
1	Determining the schedule of students' speeches. Discussing the scope and form of presentation of papers	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.

1. Ability to prepare a multimedia presentation.
2. Necessary advanced knowledge about the design, construction, maintenance and computational analysis of building objects.
3. Ability to synthetically present the research results achieved.
4. Ability to analyze presented solutions of research problems, in the field of civil engineering as well as mechanics of engineering structures, including: to notice defects and advantages of solutions, assess the validity and correctness of the conclusions.

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	
	<i>KNOWLEDGE. Doctoral student knows and understands:</i>	
SzD_W3	the main trends in the development of the scientific or artistic disciplines covered in the curricula;	<input type="checkbox"/>
SzD_W4	research methodology;	<input checked="" type="checkbox"/>
SzD_W5	the rules for the dissemination of scientific results, including in open access mode;	<input type="checkbox"/>



SzD_W6	the fundamental dilemmas of modern civilization;	<input type="checkbox"/>
SzD_W7	the legal and ethical conditions of scientific activity;	<input type="checkbox"/>
SzD_W8	the economic and other relevant conditions of scientific activity;	<input type="checkbox"/>
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.	<input type="checkbox"/>
<i>SKILLS. Doctoral student is able to:</i>		
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;	<input checked="" type="checkbox"/>
SzD_U3	communicate on specialised topics to the extent that they enable an active participation in the international scientific community;	<input checked="" type="checkbox"/>
SzD_U4	disseminate research results, including in popular forms;	<input checked="" type="checkbox"/>
SzD_U5	initiate debates and participate in a scientific discourse;	<input checked="" type="checkbox"/>
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;	<input type="checkbox"/>
SzD_U7	plan and implement an individual or collective research or creative activity, including in an international environment;	<input type="checkbox"/>
SzD_U8	independently plan and act for one's own development and inspire and organize the development of others;	<input type="checkbox"/>
SzD_U9	plan classes or groups of classes and implement them using modern methods and tools.	<input type="checkbox"/>
<i>SOCIAL COMPETENCES. Doctoral student is ready to:</i>		
SzD_K3	fulfilling the social obligations of researchers and creators, initiate public interest activities, thinking and acting in an entrepreneurial way;	<input type="checkbox"/>
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.	<input type="checkbox"/>

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.

Multimedia presentations

Scientific discussion in the group of PhD students

Evaluating the method of presentation preparation (selection of content) and the form of a multimedia presentation

Evaluating the substantive content of the presentation - with justification

Evaluating the achievements of PhD students - with justification

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] Stępień B.: Rules for writing scientific texts. PhD theses and articles. PWN Warsaw 2019.
- [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)