

**DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND  
TECHNOLOGY**

**SUPERVISOR DECLARING/CONDUCTING COURSE:** dr hab. inż. Bartosz  
Zajączkowski, prof. uczelni  
**DEPARTMENT:** Faculty of Mechanical and Power Engineering  
**SCIENTIFIC DISCIPLINE:** environmental engineering, mining and power engineering

**COURSE CARD**

**Course name in Polish:** Seminarium sprawozdawcze ISGE – W9

**Course name in English:** Reporting seminar ISGE – W9

**Course language:** english

**University-wide general course type\*:**

**The course is intended for all PhD students:** YES / NO

1) **BASIC COURSE**

2) **SPECIALIST COURSE**

3) **SEMINAR**

4) **HUMANISTIC COURSE**

5) **LANGUAGE**

**Subject code:** IGQ100194S

\* delete as applicable

	Lecture	Foreign language course	Seminar	Mixed forms
Number of hours of organized classes in university (ZZU)			15	
Grading	Exam	Exam	Oral presentation	Exam, inspection, evaluation classes

**PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES**

Not applicable

**COURSE OBJECTIVES**

- C1. Development of skills regarding presentation and discussion of research results
- C2. Improving the skills of creative discussion.

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**PROGRAM CONTENTS**

<b>Form of classes</b>		<b>Number of hours</b>
Se1	Introduction. Principles of the scientific presentation preparation review	1
Se2, Se3, Se4	Students presentations related to the topics of PhD thesis. Presentation of the literature review and obtained results.	12 (3 x 4h)
Se5	Summary of the presentations.	2
Total hours		15

**TEACHING TOOLS USED**

N1. Multimedia presentation.  
N2. Problem discussion.  
N3. Own work.

**ACHIEVED SUBJECT LEARNING OUTCOMES**

<b>Type of learning outcome</b>	<b>Code of learning outcome</b>	<b>Assessment of learning outcome</b>
Knowledge	<b>P8S_WG</b>	Student has an advanced knowledge fundamental to a field relevant to his/her research, including the most advanced methods of research and verification of results achieved (SzD_W3)
Skills	<b>P8S_UW</b>	Student 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, is able to creatively interpret the results obtained and to search for their application (SzD_U2)
Skills	<b>P8S_UK</b>	Student is able to communicate on specialist topics to the extent that they enable an active participation in the international scientific community (SzD_U3); Knows how disseminate research results, including in popular forms (SzD_U4) Student is able to initiate debates and participate in a scientific discourse (SzD_U5)

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**PRIMARY AND SECONDARY LITERATURE**

Individually selected materials

**SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)**

**Bartosz Zajączkowski (bartosz.zajaczkowski@pwr.edu.pl)**