

## **COURSE CARD**

## 1. Basic information

Course name in English:	Reporting seminar in management and quality science		
Course name in Polish:	Seminarium sprawozdawcze w naukach o zarządza jakości	niu i	
Number of hours:	15		
Type of course:	Reporting seminar of discipline		
Form of course:	seminar		
Code of course:	NZQ100316S/W08NZJ-SD0083S		
Course leader:	Prof. dr hab. Rafał Weron, dr hab inż. Anna Kowalska- Pyzalska, dr hab. inż. Katarzyna Tworek, dr hab. inż. Rafał Michalski		
Faculty of the course leader:	W8 Faculty of Management		
Email address of the course leader:	rafal.weron@pwr.edu.pl		
Scientific discipline(s) assigned to	Architecture and urban planning		
the course (doctoral students	Automation, electronic, and electrical engineering		
representing the marked disciplines can participate in the	Information and communication technology		
course):	Biomedical engineering		
	Chemical engineering		
	Civil engineering and transport		
	Mechanical engineering		
	Environmental engineering, mining, and energy		
	Mathematics		
	Chemical sciences		
	Physical sciences		
	Management and quality studies	$\boxtimes$	

# 2. Objectives

Acquiring skills and improving the research results and conducting discussions in an interdisciplinary environment.

## 3. Content

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

No.	Topic	Number of hours	Form of classes
1-7	Presentation of the research results	15	seminar
2			Select form
3			Select form
4			Select form



5		Select form
6		Select form
7		Select form
8		Select form
9		Select form
10		Select form
11		Select form
12		Select form
13		Select form
14		Select form
15		Select form

# 4. Prerequisites

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

none

# 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;	$\boxtimes$
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,	
	<ul><li>develop research methods, techniques and tools, and use them creatively,</li><li>draw conclusions on the basis of scientific research;</li></ul>	
	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	$\boxtimes$
	participation in the international scientific community;	
SzD_U4	disseminate research results, including in popular forms;	$\boxtimes$
SzD_U5	initiate debates and participate in a scientific discourse;	$\boxtimes$
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 of research results and participation in the discussion

#### 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.

Presentation, discussions

#### 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.

[1] M. Carter (2013) Designing Science Presentations: A Visual Guide to Figures, Papers, Slides, Posters, and More. Academic Press.

#### 9. Other remarks

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

