



## COURSE CARD

### 1. Basic information

Course name in English:	Recent research trends in management and quality studies	
Course name in Polish:	Najnowsze kierunki badań w nauce o zarządzaniu i jakości	
Number of hours:	30	
Type of course:	Recent research trends in discipline	
Form of course:	lecture	
Code of course:	W08NZJ-SD0082W / NZQ100319W	
Course leader:	Dr hab. inż. Anna Kowalska-Pyzalska	
Faculty of the course leader:	W8 Faculty of Management	
Email address of the course leader:	anna.kowalska-pyzalska@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 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 checked="" type="checkbox"/>	

### 2. Objectives

C1 Acquisition of specialist knowledge about the essence, characteristics and limits of the Management and Quality Science discipline in the context of other disciplines in the field of social sciences and other scientific fields.

C2 Acquisition of in-depth knowledge on the positioning of scientific work carried out in the discipline of Management and Quality Sciences, including its interdisciplinary character.

### 3. Content

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

No.	Topic	Number of hours	Form of classes
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1	Subdisciplines in the Management and Quality Sciences – contemporary research problems	2	lecture
2-6	Block 1 provided by department K48, including: project management, finance management, business psychology, human resource management, IT in management & others	10	lecture
7-9	Block 2 provided by department K47, including: knowledge and innovation management, corporate social responsibility & others	6	lecture
10-14	Block 3 provided by department K43, including: operations research and optimization, forecasting and computing statistics, modelling and simulation, energy economics & others	10	lecture
15	The academic values and ethics of the researcher	2	lecture

#### 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	
	<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 checked="" type="checkbox"/>
SzD_W4	research methodology;	<input 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 checked="" 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;	<input type="checkbox"/>



	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;	<input type="checkbox"/>
SzD_U4	disseminate research results, including in popular forms;	<input type="checkbox"/>
SzD_U5	initiate debates and participate in a scientific discourse;	<input 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"/>
	<b>SOCIAL COMPETENCES. Doctoral student is ready to:</b>	
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.*

Each part of the blocks of lectures ends with a short evaluation in a written or an oral form. The final grade is the average of them.

## 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 presentation, discussion, literature studies, developing written documents, own work

## 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] Sułkowski Ł. (2012). Epistemologia i metodologia zarządzania, PWE, Warszawa.
- [2] Cyfert Sz., Dyduch W., Latusek-Jurczak D., Niemczyk J., Sopińska A. (2014). Subdyscypliny w naukach o zarządzaniu, identyfikacja modelu koncepcyjnego oraz zawartość tematyczna, Organizacja i Kierowanie, nr 1, s. 37-48.



- [3] Podstawy metodologii badań w naukach o zarządzaniu (2015). Czakon W. (red.), Wolters Kluwer Polska, Warszawa.
- [4] Czakon W. (2014). Kryteria rygoru metodologicznego badań w naukach o zarządzaniu, *Organizacja i Kierowanie*, nr 1, s. 51-62.
- [5] Jonker, J., & Pennink, B. (2010). *The essence of research methodology: A concise guide for master and PhD students in management science*. Springer Science & Business Media.

## 9. Other remarks

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