



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Research project [S2IZarz1>PrBad]

### Course

Field of study

Engineering Management

Year/Semester

2/3

Area of study (specialization)

Managing Enterprise of the Future

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

### Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

120

Projects/seminars

0

### Number of credit points

5,00

### Coordinators

prof. dr hab. inż. Stefan Trzcieliński  
stefan.trzcielinski@put.poznan.pl

### Lecturers

### Prerequisites

The student possesses knowledge, skills and social competences necessary to register for the third semester of Master program.

### Course objective

Collecting data on the research problem undertaken in the master's thesis, their processing and development of research results.

### Course-related learning outcomes

Knowledge:

The student defines practical applications of mathematical statistical tools in data analysis for a research project. [P7S\_WG\_03]

The student describes and delineates the applications of advanced research methods in management science for their own research project [P7S\_WG\_04].

The student lists and characterizes various data acquisition methods used to identify and analyze research problems [P7S\_WG\_07].

The student explains and applies ethical standards in the research process, especially in the context of

data collection and processing [P7S\_WK\_01].

The student classifies and applies the principles of intellectual property and copyright protection in the creation of research materials [P7S\_WK\_02].

#### Skills:

The student interprets the scientific literature, integrating it with his/her own research in the project [P7S\_UW\_03].

The student plans and conducts research, developing and testing hypotheses in the project [P7S\_UW\_04].

The student analyzes the results of empirical research, applying scientific methodology [P7S\_UW\_07].

The student prepares scientific documentation, presenting research results in written form [P7S\_UK\_01].

The student presents research results orally, demonstrating communication skills in Polish and foreign language [P7S\_UK\_02].

#### Social competences:

The student manages his/her own research project, demonstrating responsibility and effective collaboration with the research supervisor [P7S\_UO\_01].

The student uses and integrates interdisciplinary knowledge in the context of a research project [P7S\_KK\_01].

The student identifies and evaluates key factors influencing the outcomes of the research project [P7S\_KK\_02].

The student demonstrates professionalism and ethics in the research process, respecting diversity of views and cultures [P7S\_KR\_01].

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Ongoing assessment of the progress of the MA dissertation; final evaluation of the master's dissertation; assessment of verbal and visual presentation and fragments of master dissertation.

### Programme content

Formulation of the research problem; literature analysis of the problem; identification of the research gap; defining the purpose of research; developing research methodology; collecting empirical data; data processing; development and discussion of research results; defining the practical usefulness of research results and the limits of their application.

### Course topics

Formulation of the research problem; literature analysis of the problem; identification of the research gap; defining the purpose of research; developing research methodology; collecting empirical data; data processing; development and discussion of research results; defining the practical usefulness of research results and the limits of their application.

### Teaching methods

Individual literature studies; case studies; design method.

### Bibliography

#### Basic:

Literatura stosowna do tematu pracy

Czakon W. (2020). Podstawy metodologii badań naukowych w naukach o zarządzaniu. Wydawnictwo Nieoczywiste.

Kothari C.R. (2004). Research Methodology. Methods and Techniques. New Age International (P) Ltd., Publishers. <https://www.modares.ac.ir/uploads/Agr.Oth.Lib.17.pdf>

#### Additional:

Krajewski (2010). O metodologii nauk i zasadach pisarstwa.

[http://www.krajewskimirosław.pl/\\_media/docs/4i.%20METODOLOGIA%20NAUK.pdf](http://www.krajewskimirosław.pl/_media/docs/4i.%20METODOLOGIA%20NAUK.pdf)

### Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,00
Classes requiring direct contact with the teacher	100	4,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00