



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Research project

Course

Field of study

Engineering Management

Area of study (specialization)

Managing the Enterprise of the Future

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

English

Requirements

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

125

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

Prof. Stefan Trzcieliński, Ph.D., D.Sc., Eng.

Mail to: stefan.trzcielinski@put.poznan.pl

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

prof. Leszek Pacholski, Ph.D., D.Sc., Eng.

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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.

Teaching methods

Individual literature studies; case studies; design method.

Bibliography

Basic

Publications according to the thesis theme

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.krajewskimiroslaw.pl/_media/docs/4i.%20METODOLOGIA%20NAUK.pdf

Breakdown of average student's workload

| | Hours | ECTS |
|--|-------|------|
| Total workload | 125 | 5,0 |
| Classes requiring direct contact with the teacher | 100 | 4,0 |
| Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests, project preparation) ¹ | 25 | 1,0 |

¹ delete or add other activities as appropriate