



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Project Management

### Course

Field of study

Logistics

Area of study (specialization)

Logistics Systems

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

English

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

15

Other (e.g. online)

Tutorials

Projects/seminars

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

Ph.D., D.Sc., Eng. Magdalena Wyrwicka,  
University Professor

Responsible for the course/lecturer:

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Faculty of Engineering Management

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### Prerequisites

Student knows issues of process mapping, process orientation in logistics and process simulation.

### Course objective

Transfer of knowledge about the premises for the implementation of pro-development changes as well as skills and competences in the field of pro-development project management. Preparation for the role of a project manager. [P7S\_WG\_03]

Student knows extended issues in the field of mathematics and optimization methods in studying the structure of economic and logistic phenomena. [P7S\_WG\_03]

Student can make a critical analysis of technical solutions used in the analyzed logistics system (in particular with regard to devices, objects and processes). [P7S\_UW\_04]



Student is ready to prepare in Polish and English language at the B2 level of the European Language Description System a well documented elaboration of problems in the field of logistics. [P7S\_UK\_02]

Student takes a responsibility for own work and readiness to comply with the rules of working in a team and taking responsibility for the tasks carried out jointly. [P7S\_KR\_01]

### Course-related learning outcomes

#### Knowledge

1. Student knows extended issues in the life cycle of socio-technical systems (logistic systems) and the life cycle of industrial products [P7S\_WG\_06]
2. Student knows extended issues in the scope of management characteristic for logistics and supply chain management [P7S\_WG\_08]
3. Student knows phenomena and contemporary trends characteristic for logistics and its detailed issues and supply chain management [P7S\_WK\_03]

#### Skills

1. Student can design, using appropriately selected means, an experiment, a process of analysis or a scientific study solving a problem within the framework of logistics and its specific issues as well as supply chain management [P7S\_UK\_01]
2. Student can formulate and solve tasks through interdisciplinary integration of knowledge from different fields and disciplines used to design logistics systems [P7S\_UO\_01]

#### Social competences

1. Student understands recognize causal relationships in achieving the set goals and grading the significance of alternative or competitive tasks [P7S\_KK\_01]
2. Student can planning and managing in a creative way business ventures. [[P7S\_KO\_01]
3. Student knows about responsibility and initiation of activities related to the formulation and information sharing and cooperation in the society in the scope of logistics [P7S\_KO\_02]
4. Student can inspire and organize the learning process of others in the scope of logistics and supply chain management. [P7S\_KR\_02]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: Formative assessment: presence and activity during classes, results of solved cognitive tasks, participation in discussions. Summative assessment: written test result (containing 4-5 open problem questions; max 13 points, passing from 6.5).

Laboratory: Formative assessment: presence and activity during classes, results of solved cognitive tasks, participation in discussions. Summative assessment: independent execution of the indicated cognitive task (computer-assisted project) and its presentation in the forum of the group.



## Programme content

Lecture: Project management systems. Project initiation. Design organization. Typology of projects, Determining the requirements and conditions of project implementation and specifying the purpose of the project. Feasibility study. Project outline. Project management methodologies. Creating a project team, creating its structure and integrating the team into the structure of the company. Project planning. Structure of the division of tasks. Resource Planning. Methods of estimating the duration and costs of project tasks. Project network diagram. Network methods (CPM, PERT, MPM). Critical path. Project schedule (Gantt chart). The use of a computer program supporting project management. Risk analysis and anti-disruption plans. Project implementation and control. Project controlling - Analysis and introduction of changes. HR aspects in project management. Closing the project.

Laboratorium: Inicjacja i planowanie projektu logistycznego z wykorzystaniem wybranego systemu informatycznego.

## Teaching methods

Lecture: problem lecture or seminar, work with a book

Laboratory: laboratory exercises - solving cognitive tasks (project preparation) with the use of IT support.

## Bibliography

Basic

1. PMBOK® Guide – 7th Edition, Pennsylvania, 2021
2. Trocki M., Metodyki i standardy zarządzania projektami, PWE, Warszawa, 2017.
3. Wyrwicka M., Zarządzanie projektami, Wydawnictwo Politechniki Poznańskiej, Poznań, 2011.
4. Wyrwicka M., Zarządzanie projektowe [w:] Fertsch M. (red.), Elementy inżynierii logistycznej, Biblioteka Logistyka, Wydawnictwo ILiM, Poznań 2017, s. 53-74.
5. Wysocki R., Efektywne zarządzanie projektami. Tradycyjne, zwinne, ekstremalne, Wydawnictwo Helion, Gliwice, 2013.

Additional

1. Głodzieński E., Efektywność w zarządzaniu projektami. Wymiary, koncepcje, zależności, PWE Warszawa, 2017.
2. Prussak W., Wyrwicka M., Zarządzanie projektami, Zachodnie Centrum Organizacji, Poznań, 1997.
3. Shenhar A.J., Dvir D., Nowe spojrzenie na zarządzanie projektami. Sukces wzrostu i innowacji dzięki podejściu romboidalnemu, Wydawnictwo APN Promise, Warszawa, 2008.
4. Wyrwicka M., Niektóre uwarunkowania efektywnej realizacji projektów, Zeszyty Naukowe Politechniki Poznańskiej, seria Organizacja i Zarządzanie, nr 29, 2020, s. 113-118.



5. Trocki M., Nowoczesne zarządzanie projektami, PWE, Warszawa, 2012.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	20	1,0

<sup>1</sup> delete or add other activities as appropriate