



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Elective Subject I: PMBoK

Course

Field of study

Year/Semester

Construction

2/3

Area of study (specialization)

Profile of study

Structural Engineering

general academic

Level of study

Course offered in

Second-cycle studies

english

Form of study

Requirements

full-time

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

15

Tutorials

Projects/seminars

15

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

mgr inż. Sebastian Dubas

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Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 5, 60-965 Poznań

Prerequisites

KNOWLEDGE: Basics of modern project (enterprise) management standards and product development

SKILLS: Basic ability to manage projects (ventures) and product development

COMPETENCES: Leadership in management.

Course objective

Defining 10 management areas in the project: managing scope, time (milestones), costs, quality, human resources, communication, risk (including SWOT analysis), orders, integration and project stakeholders, creation of a Project Management Plan.



Course-related learning outcomes

Knowledge

Knows the in-depth principles of creating quality management procedures for construction projects; has knowledge about the efficiency, costs and duration of construction projects in conditions of risk and uncertainty

Has in-depth knowledge of doing business in the construction industry and the principles of creating and developing various forms of individual entrepreneurship; understands the principles and foundations of financial management of enterprises

Skills

Is able to perform a preliminary economic analysis of the proposed solutions and undertaken engineering activities, knows how to prepare a cost estimate and schedule of construction works, a contract and business plan of a construction project, manage construction processes, set the duties and tasks of investor and building supervision

Is able to assess threats in the implementation of construction projects and the operation of buildings, implement appropriate safety principles and develop labor norms and norms as well as quality management procedures

Is able to obtain information from literature, databases and other properly selected sources; is able to integrate obtained information, make their creative interpretation and assessment, as well as draw conclusions, formulate and substantiate opinions and present them.

Social competences

Is ready to think and act in an entrepreneurial way.

Is responsible for the safety of own and team work

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Written exam consisting of 4 - 8 open questions, organized during the last classes in the semester.

Completion of the project based on the completed project - the assessment assesses the correctness of implementation, timeliness, regular consultations and project defense. Deadline for submitting and defending the project during the last class in the semester.

Programme content

lectures:

1. Main global project management standards
2. Project life cycle and product life cycle
3. The investment and construction process in Poland in terms of the project life cycle.



4. Project management and operational management.
5. The role of the Project Manager and organizational influences on project management.
6. Groups of project management processes: group of planning processes, group of implementation processes, group of monitoring and control processes, group of completion processes.
7. Areas of knowledge about project management and their relationships with groups of project management processes.
8. Areas of knowledge about project management: project integration management, project scope management, project time management, project cost management, project human resource management, project communication management, project risk management, project quality management, order management in the project and stakeholder management in the project.

Projects:

- 1-8. Development of a selected issue, taking into account the PMBoK methodology..

Teaching methods

Problem lecture

Multimedia presentation

Conversational lecture

Case method

Project implementation

Bibliography

Basic

1. PMBOK Guide (A Guide to the Project Management Body of Knowledge) 5th edition?
2. Carl L. Pritchard, Risk Management: Concepts and Guidance

Additional

Color code. Taylor Hartman

Reinventing Organizations, Frederic Laloux



Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for exam, project exercise) ¹	30	1,0

¹ delete or add other activities as appropriate