



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Team building [S2Bud1E-ZBZ>BZ]

Course

Field of study

Civil Engineering

Year/Semester

2/3

Area of study (specialization)

Sustainable construction and management

Profile of study

general academic

Level of study

second-cycle

Course offered in

English

Form of study

full-time

Requirements

elective

Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

30

Projects/seminars

0

Number of credit points

2,00

Coordinators

dr hab. inż. Jerzy Paślawski prof. PP
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Lecturers

Prerequisites

The student has basic knowledge of the basics of construction. The student is able to obtain information from indicated sources and analyse the engineering activities undertaken. The student is aware of the need to constantly update and supplement construction knowledge and to undertake responsibility in professional work. The student is aware of the existence of management issues in construction.

Course objective

The course develops competencies in building and managing engineering project teams, communication and conflict management, teamwork in complex civil engineering projects. The course prepares students for future roles as project managers and team leaders in construction industry.

Course-related learning outcomes

Knowledge:

know and understand the principles of functioning of project teams in construction and models of development of employee teams in organizations.

know the basic concepts of leadership, employee motivation and organization of teamwork in construction projects.

know the social, organizational and ethical conditions of teamwork in the implementation of construction and infrastructure projects.

Skills:

Use advanced specialized tools in order to search for useful information, communication and in order to obtain software supporting the designer and organizer of building engineering works. Applying scientific rules and skills, are able to formulate and test hypotheses related to simple research problems, in order to solve engineering, technological and organisational problems in construction engineering; can prepare studies preparing for research work.

Are able to obtain information from literature, databases and other properly selected information sources; can integrate the obtained information, interpret and evaluate it as well as draw conclusions, formulate, justify, discuss and present opinions.

Can make plans autonomously, carry out lifelong learning processes and direct others in this respect; can apply the obtained knowledge into building engineering in order to communicate with different target groups using specialized terminology and discuss important problems of building industry.

Can manage team work, cooperate with other people and take the leading part in teams.

Social competences:

Take responsibility for the reliability of working results and their interpretation.

Can realise that it is necessary to improve professional and personal competence; are ready to critically evaluate the knowledge and received content.

Understand the need to transfer to the society the knowledge about building engineering, transfer the knowledge in a clear and easily comprehensible manner.

Are ready to think and act in a business-like way.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Exercises: the final grade based on the partial grades for:

Workshop participation,

Group project - report on workshop activities,

Final presentation on given topic,

Written test on exercise material.

Grading scale:

<90-100%> - 5.0 (A)

<80-90%) - 4.5 (B)

<70-80%) - 4.0 (C)

<60-70%) - 3.5 (D)

<50-60%) - 3.0 (E)

<50% - 2.0 (F)

Programme content

The basics of teamwork and team building.

Different types of project teams.

The process of creating a team and mechanisms of team building.

The role of a leader and leadership in an effective team on complex projects.

Motivation and management of team competencies.

Conflicts and their resolution.

Practical team building workshops.

Course topics

Exercises conducted in the form of workshops

1. Personality types (competency tests).

2. Roles in project teams (Belbin model) and team effectiveness in complex projects.

3. Management styles and leadership -self-reflection.

4. Team motivation and team performance.

5. Communication exercises in project teams.

6. Conflict management - simulations.
7. Collaboration tools and communication technologies in project teams
8. Case studies of construction design teams
9. Project Presentations

Teaching methods

Practical workshops
 Discussion
 Competency tests
 Role-play exercises
 Team games
 Case Study Analysis

Bibliography

Basic:

1. Robbins S., Judge T., Organizational Behavior. 2014
2. Katzenbach J., Smith D., The Wisdom of Teams. 2010
3. Lancioni P., The Five Dysfunctions of a Team: A Leadership Fable: 13. ed. 2017

Additional:

1. Belbin R., Team Roles at Work. 2010
2. Kerzner H., Project Management: A Systems Approach to Planning, Scheduling, and Controlling , ed. 2025

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00