



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Organization and planning of the building [S1BZ1E>OiPB]

Course

Field of study

Sustainable Building Engineering

Year/Semester

3/6

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

English

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other

0

Tutorials

15

Projects/seminars

15

Number of credit points

3,00

Coordinators

dr inż. Piotr Nowotarski

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Lecturers

Prerequisites

KNOWLEDGE: the student has basic knowledge of general construction, construction technology of building structures. He knows the basics of calculating construction works. **SKILLS:** the student is able to divide of construction processes in terms of various technologies for the execution of works. He reads architectural and construction drawings. He can make a bill of quantities and calculate construction works. **SOCIAL COMPETENCES:** the student is aware of the need to constantly update and supplement construction knowledge and take responsibility at work

Course objective

Acquiring knowledge of the basics of organization and management of construction processes.

Course-related learning outcomes

Knowledge:

1. The student knows the theories of organization and management.
2. The student knows the methods of organization and planning of construction process.
3. The student knows the organizational structures of the construction site.
4. The student knows the rules of drawing up a construction development plan.

Skills:

1. The student is able to divide the processes at various stages of the execution of a building object
2. Student is able to staff of working teams for the implementation of specific construction processes and propose a method of organizing the implementation of various scopes of works
3. The student is able to build a technological and organizational network model, make various construction schedules, analyze the resources necessary for the implementation of a building object
4. The student knows how to prepare the concept of the construction development plan

Social competences:

1. The student acquires teamwork skills and is able to take care of its safety
2. The student is aware of the need to improve professional and personal competences, is ready to critically evaluate his knowledge and received content

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

Lecture: written test

Tutorials: written test

The following grading scale, defined in%, is adopted for both lesson:

90 very good (A)

85 good plus (B)

75 good (C)

65 sufficient plus (D)

52 satisfactory (E)

below 51 insufficient (F)

Design exercises: Presentation and defense of the completed design exercise

Programme content

Basics of organization and management in construction. The specificity of construction production. Methods and techniques of organizing construction works. Determining the duration of construction processes. Staffing of working teams for construction processes. Schedules- their types, purpose and rules of preparation. Network methods in the organization and planning of construction process. Development of the construction site. Construction organizational structures.

Course topics

none

Teaching methods

Multimedia presentation

Bibliography

Basic

1. Podstawy teorii organizacji i zarządzania, Bielski M., wyd. 2 rozszerzone, C.H. Beck, W-wa, 2004
2. Organizacja produkcji budowlanej, Rowiński L., Arkady, Warszawa, 1982
3. Technologia i organizacja budowy, Dyżewski A., Arkady, Warszawa, 1990
4. Metody sieciowe w budownictwie, Biernacki J., Cyunel B., Arkady, Warszawa, 1989
5. Podstawy organizacji budowy, Jaworski K.M., Wydawnictwo Naukowe PWN, Warszawa, 2004
6. Zarządzanie w procesie inwestycyjnym, Werner W.A., Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2008

Additional

1. Elementy organizacji robót inżynierskich, Pisarska E., Połowski M., Wyd. SGGW, Warszawa, 2000
2. Podstawy organizacji robót drogowych, Biruk S., Jaworski K. M., Tokarski Z., PWN, Warszawa, 2007
3. Organizacja i planowanie budowy, Lenkiewicz W. PWN, Warszawa, 1985
4. Podstawy zarządzania organizacjami, Griffin R.W., PWN, W-wa, wyd. 1999

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	3,00
Classes requiring direct contact with the teacher	15	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	2,00