



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Construction Technology

Course

Field of study

Civil Engineering

Area of study (specialization)

Construction Engineering and Management

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

english

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

Tutorials

15

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr inż. Piotr Nowotarski

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tel: 616652190

Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 5, 60-965 Poznań

Responsible for the course/lecturer:

mgr inż. Sebastian Dubas

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Prerequisites

The student has basic knowledge of scheduling and planning construction production, is able to plan a construction project and arrange construction tasks and processes in a logical sequence, has the competence to work in a team and communication between work teams.

Course objective

Acquiring knowledge in the field of the work breakdown structure, project copy, project triangle, work scheduling using computer software, project management.



Course-related learning outcomes

Knowledge

1. Has knowledge of infrastructure management in the full life cycle of facilities.
2. Knows the methods of scheduling construction projects.
3. Knows and applies the provisions of the construction law.
4. Has knowledge about the impact of investment implementation and existing building structures on the environment.

Skills

1. Uses specialized tools to search for useful information, communicate and acquire software supporting the work of a designer and organizer of construction processes.
2. Can choose tools (analytical or numerical) to solve technical problems
3. Can freely use the tools for scheduling construction works.
4. Has the ability to communicate in foreign languages, including knowledge of elements of technical language in the field of construction.

Social competences

1. Can - by carrying out specific tasks - work independently, cooperate in a team and lead a team.
2. Is responsible for the reliability of the results of his work and the evaluation of the work of his team.
3. Independently complements and extends knowledge in the field of modern processes and technologies in construction.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures:

- participation in lectures
- written test

Exercises:

- active participation in exercises
- execution of a project in the field of design and construction production management

Grading scale defined% from:

90 very good (A)

85 good plus (B)



75 good (C)

65 sufficient plus (D)

55 sufficient (E)

below 54 insufficient (F)

Programme content

W1 - work breakdown structure

W2 - project composition,

W3 - project triangle,

W4 - construction production planning,

W5 - work scheduling with the use of computer programs

W6 - time management and planning tools

W7 - schedule analysis and case study

W8 - credit

Classes 1,2 - Introduction

Exercises 3,4 - Using scheduling programs

Exercises 5,6 - creating your own work schedule

Classes 7,8 - creating your own work schedule

Teaching methods

Information lecture; Problem lecture; Conversational lecture; Demonstration method; Design method; Workshop method; Show.

Bibliography

Basic

1. . MS Project 2007, MS Project Server 2007 : efektywne zarządzanie projektami, Sebastian Wilczewski, 2008
2. Microsoft? Project 2013 dla bystrzaków, Cynthia Snyder, Nancy Muir, 2015
3. Microsoft? Project 2013 for dummies, Cynthia Snyder, Nancy Muir, 2015

Additional



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 (preparation of a schedule) ¹	30	1,0

¹ delete or add other activities as appropriate