



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Construction project management [N2Bud1-KB>ZPB]

Course

Field of study

Civil Engineering

Year/Semester

1/2

Area of study (specialization)

Structural Engineering

Profile of study

general academic

Level of study

second-cycle

Course offered in

polish

Form of study

part-time

Requirements

compulsory

Number of hours

Lecture

18

Laboratory classes

0

Other (e.g. online)

0

Tutorials

10

Projects/seminars

0

Number of credit points

2,00

Coordinators

dr inż. Tomasz Wiatr

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Lecturers

dr inż. Tomasz Wiatr

tomasz.wiatr@put.poznan.pl

Prerequisites

none

Course objective

none

Course-related learning outcomes

Knowledge:

1. Student knows selected methods of operational research (linear programming, transport and allocation issues) with application in the engineering of construction projects
2. Student knows the possibilities of using the decision matrix and the decision tree in decision problems occurring in the investment process
3. Student knows the possibilities of software for planning construction projects

Skills:

1. Student, using the methods of operational research and computer applications, is able to determine a solution for optimization problems: selection of the product range and allocation of production means,

- selection of the technological process, production and warehouse management and investment location
2. Student is able to describe a decision problem under conditions of uncertainty and is able to use to solve a decision problem in the field of construction production, a decision matrix and a decision tree with the use of computer applications
 3. Student can plan the course of construction works with the use of project planning software and conduct a time and cost analysis using this software

Social competences:

1. Student knows the possibilities of use and can propose the use of operational research methods in engineering practice in the field of construction
2. Student understands what cooperation is all about and is ready to cooperate with various participants of the decision-making process and the investment process
3. Student is aware and is able to convey the role played and the possibilities offered by the use of software for planning construction projects

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

none

Programme content

none

Teaching methods

none

Bibliography

none

Breakdown of average student's workload

	Hours	ECTS
Total workload	58	2,00
Classes requiring direct contact with the teacher	28	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00