Tadeusz Kosciuszko Cracow University of Technology

Course Card

Faculty of Civil Engineering

Field of study: Civil Engineering

Study profile: general academic

Study form: full-time

Field of study code: BUD

Study cycle: 1st

Specialty: no specialty

1 COURSE INFORMATION

Course name	Ekonomika budownictwa
Course name in English	Economics in Civil Engineering
Course code	WIL BUD oIS D50 24/25
Course category	Przedmioty profilowe
No. of ECTS points	2.00
Semester	7

2 CLASS TYPE, NUMBER OF HOURS ACCORDING TO THE STUDY PLAN

Semester	Lecture	Class exercise	Laboratory	Computer lab	Design exercise	Seminar
7	7	0	0	8	7	0

3 COURSE OBJECTIVES

Objective 1 To familiarize students with the assessment of the construction projects' profitability.

Objective 2 To prepare students to conduct research involving assessment of the construction projects' profitability.

4   PREREQUISITES IN TERMS OF KNOWLEDGE, SKILLS AND OTHER COMPETENCES

5   LEARNING OUTCOMES

LO1 Knowledge A student knows the concept of the time value of money.

LO2 Skills A student knows selected measures of construction projects' profitability.

LO3 Knowledge A student can calculate the future value, the present value, the periodic payment equivalent to the future value and the periodic payment equivalent to the present value using the formulas and financial functions of MS Excel.

LO4 Skills A student can calculate the selected measures of construction projects' profitability using the formulas and financial functions of MS Excel.

LO5 Knowledge A student honestly interprets the results of his work and assesses the construction projects' profitability.

6   COURSE CONTENT

Design exercise		
No.	Subject matter of the course Detailed description of thematic blocks	No. of class hours
P1	Profitability assessment of an example construction project.	7

Lecture		
No.	Subject matter of the course Detailed description of thematic blocks	No. of class hours
L1	Time value of money.	3
L2	Measures of construction projects' profitability	4

Laboratory computer		
No.	Subject matter of the course Detailed description of thematic blocks	No. of class hours
K1	Calculating the future value, the present value, the periodic payment equivalent to the future value and the periodic payment equivalent to the present value using the formulas and financial functions of MS Excel.	2
K2	Calculating the selected measures of construction projects' profitability using the formulas and financial functions of MS Excel.	3
K3	Comparison of the profitability of construction projects based on selected measures.	3

7   TEACHING TOOLS

N1 Lectures

N2 Multimedia presentations

N3 Laboratory exercises

N4 Design exercises

N5 Consultations

8   Student workload

Activity form	Number of hours of activity
Hours realized in contact with the teacher	
Hours resulting from the study plan	22
Consultation hours	1
Exams and tests during session	1
Hours of autonomous student work	
Preparing for classes, studying literature	12
Developing results	12
Preparing of reports, projects presentations, discussion	12
Total number of hours devoted to the subject	**60**
Total number of ECTS points	2.00

9   Methods of grading

Partial grades

F1 Individual project

F2 Test - computer laboratories

F3 Test - lecture

Summary grade

P1 Weighted average of formative grades (weights: 0.4 for lecture grade, 0.3 for project grade and 0.3 for computer laboratory grade)

Conditions for passing the course

L1 Passing the calculation tasks and test at computer laboratories.

L2 Passing the project.

L3 Passing the lecture test.