

ECONOMICS OF DESIGN AND INVESTMENT PROCESS II

Subject code: **04.0-WILŚ- BUD- EBU- TC010**

Subject type: Obligatory

Language of instruction: English

Responsible for the subject: Person currently conducting lectures

Providing education: Department of Construction Technology,
Geotechnics and Geodesy

Type of class	Number of classes per semester	Number of classes per week	Semester	Type of credit	ECTS points
Full time studies					3
Lecture	15	1	II	credit with a grade	
Class	15	1		credit with a grade	
Part time studies					
Lecture	10	1	II	credit with a grade	
Class	10	1		credit with a grade	

SUBJECT OBJECTIVE:

Extending knowledge of economics

INITIAL REQUIREMENTS:

Basics of construction works technology, knowledge of general construction, optimization calculus

SUBJECT SCOPE:

Lecture

Optimal location of the investment, impact factors, and logistic issues related to the designated location, selection of optimum material conditions, synergy theory, value engineering, calculation of the maximum production capacity of the construction company, determination of an optimum size for a construction company, control of PB stocks, determination of acceptable risk

Classes

Exercises in real estate management consisting in planning real estate maintenance and financing

Educational methods:

Conventional lecture, calculation exercises in a team

EDUCATION RESULTS:

Results after completion of the course	Symbol	Verification method	Type of class
Knowledge			

The student has knowledge of: optimum selection of investment location, can solve logistic issues related to construction, optimum selection of material variants	K_W07	test with points	L
Abilities			
The student can determine the optimum location, size of the construction company, production capacity of the company, an optimum selection of material options	K_U10	A credit for class exercises	C
Social competences			
The student is aware of the benefits of working with specialists from other industries	K_K02	conversation during lectures initiated by the teacher;	L, C

VERIFICATION OF EDUCATION RESULTS AND REQUIREMENTS TO OBTAIN A CREDIT:

Lectures – a credit for a test.

Classes – a positive grade for projects.

Final grade for the subject: 50% for the lectures + 50% for the classes

STUDENT WORK:

Interaction with the teacher	15l + 15c +10 consultations	40 h.
Student's individual work		30 h,
Total		70 h
ECTS for the subject	70/25	3ECTS

BASIC LITERATURE:

1. Jaworski K.: Organizacja i planowanie w budownictwie. T. II. Zastosowanie badań operacyjnych. Wydawnictwo Politechniki Warszawskiej, Warsaw 1992
1. Jerzak M.: Organizacja i ekonomika wykonawstwa budowlano-montażowego. Wydawnictwo PWN, Warsaw 1900
2. Rowiński L.: Organizacja i ekonomika budownictwa. Wydawnictwo PWN, Warsaw 1989
3. Stefański A., Walczak J.: Technologia robót budowlanych. Wydawnictwo Arkady, Warsaw 1983.

COMPLEMENTARY LITERATURE:

1. Biernacki J., Cyunel B.: Metody sieciowe w budownictwie, Arkady, Warsaw 1989
2. Jaworski K.: Metody projektowania realizacji budowy, PWN, Warsaw 1999

SYLLABUS PREPARED BY

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