

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Construction Economics		Code 1010102121010110105
Field of study Civil Engineering second-cycle studies	Profile of study (general academic, practical) general academic	Year /Semester 1 / 2
Elective path/specialty Costruction Engineering and Management	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 30 Classes: 15 Laboratory: 30 Project/seminars: -		No. of credits 4
Status of the course in the study program (Basic, major, other) major		(university-wide, from another field) from field
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 4 100% 4 100%
Responsible for subject / lecturer: dr hab. inż. Wiesław Meszek email: wieslaw.meszek@put.poznan.pl tel. 616652480 Budownictwa Lądowego i Inżynierii Środowiska Piotrowo 5 Poznań tel.665 24 13		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	basic knowledge of the technology works, the organization of production construction, computer methods, the economics of building
2	Skills	able to draw up a construction cost estimate for the specified scope of work (using a cost estimation software), draw up costing a construction project, is able to perform economic analysis in the stages of technical documentation phase of the investment and operation of a building
3	Social competencies	knows how to work in a group and present the results of their work
Assumptions and objectives of the course: The acquisition by students of knowledge, skills and competences in the field of: ? cost management in construction company in conditions of uncertainty and risk, to assess the effectiveness of construction projects and assess their risk and performance assessment of a construction company in terms of financial, economic activities using selected methods and techniques.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. The student knows the basics and principles of cost management in construction company in conditions of uncertainty and risk - [-K_W10]		
2. The student knows the methods to assess the economic efficiency and the areas of their practical applications - [-K_W10]		
3. The student understands the principles of financial management of construction enterprises - [-K_W11]		
4. The student knows the basic indicators of the evaluation activities of a construction company in the financial aspect - [-K_W11]		
Skills:		
1. Student is able to estimate the cost of the investment project, taking into account the risk - [-K_U10]		
2. Student is able to assess the economic efficiency of the investment project for uncomplicated - [-K_U10]		
3. Student is able to make a preliminary financial analysis for a construction company, to use the right tools - [-K_U05]		
4. Student is able to draw the elements of a business plan in terms of economic and financial - [-K_U10]		
Social competencies:		

1. The student is able to formulate and present the evaluation of solutions in terms of economic, financial - [-K_K07]
2. The student acquires the ability to work in a team - [-K_K01]
3. The student recognizes the need to respect the ethical, economic and financial policies in the different phases of the investment process - [-K_K11]

Assessment methods of study outcomes

lectures - a written examination

-3 design exercises in the field of design practice: evaluation of the economic efficiency of a construction project, a preliminary analysis of the financial performance of a construction company, construction company balance sheet analysis

The scale of assessments determined% from 90 very good (A), 85 good plus (B), 75 good (C), 65 satisfactory plus (D), 55 satisfactory (E), below 54 insufficient

Course description

-Basic Economic mechanisms related to the functioning of the construction market. Methods and techniques used in construction economics. The criteria for allocation of investment. Sources and methods of financing. Methods of evaluation of economic efficiency in the construction industry with regard to financial risk. Calculate the cost of construction projects including the variants of. The budgets of the construction companies. The accounts of income and expenses. Financial analysis and technical-economical construction company. Management of fixed assets and amortization of fixed assets obrotowym-. Materials Management. The value of the property and valuation principles of its components. The operating costs of buildings and structures.

Basic bibliography:

1. Głowacz Ł. Analiza ekonomiczna przedsięwzięć budowlanych, Wydawnictwo PK, Kraków 1999
2. Dobieja M. Rachunkowość zarządcza i controlling, PWN, Warszawa 1997
3. Duraj J. Podstawy ekonomiki przedsiębiorstwa, PWE, Warszawa 2004
4. Paczuła C. Rachunkowość przedsiębiorstwa budowlano- montażowego, PCB, Warszawa 2000

Additional bibliography:

1. Goryński J. Ekonomia budownictwa Warszawa 2001
2. Rogowski W. Rachunek efektywności przedsięwzięć inwestycyjnych, Oficyna Ekonomiczna, Kraków, 2004
3. Douglas J., Ferry Brandon Peter S. & Ferry Jonathan D., Blackwell Cost Planning of Buildings, 1999

Result of average student's workload

Activity	Time (working hours)
1. Udział w wykładach	30
2. Udział w ćwiczeniach projektowych	15
3. Przygotowanie ćwiczeń projektowych	30
4. Przygotowanie do egzaminu, udział w egzaminie	20

Student's workload

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	75	3
Practical activities	50	2