| | | STUDY MODULE D | ESCRIPTION FORM | | | | |
|--|---|--|---|---|--|--|--|
| | the module/subject | nics | | Code 1010101151010110105 | | | |
| Field of s | study | | Profile of study | Year /Semester | | | |
| Civil Engineering First-cycle Studies | | | (general academic, practical) (brak) | 3/5 | | | |
| Elective path/specialty | | | Subject offered in: Polish | Course (compulsory, elective) obligatory | | | |
| Cycle of | study: | | Form of study (full-time,part-time) | | | | |
| First-cycle studies | | | full-time | | | | |
| No. of he | ours | | | No. of credits | | | |
| Lectur | e: 30 Classes | : 15 Laboratory: - | Project/seminars: | 15 3 | | | |
| Status o | f the course in the study | field) | | | | | |
| (brak) | | | (brak) | | | | |
| Educatio | on areas and fields of science | ence and art | | ECTS distribution (number and %) | | | |
| technical sciences | | | | 4 100% | | | |
| Resp | onsible for subje | ect / lecturer: | | | | | |
| dr in | ż. Marcin Gajzler | | | | | | |
| | il: marcin.gajzler@put | t.poznan.pl | | | | | |
| | 652190 ownictwa Lądowego i | Inżynierii Środowiska | | | | | |
| | otrowo 5 60 965 Pozr | 2 | | | | | |
| Prere | quisites in term | s of knowledge, skills an | d social competencies: | | | | |
| | | Basic knowledge of building mat | erials, construction, technology | y and organization | | | |
| 1 | Knowledge | | | | | | |
| 2 | Skills | The use of structural and material solutions, technological and organizational use of analytical methods to formulate and solve engineering problems | | | | | |
| 3 | Social competencies | knows how to work in a group and present the results of their work | | | | | |
| Assu | - | ectives of the course: | | | | | |
| works, | The acquisition of knowledge, skills and competence in planning, monitoring and accounting of the costs of implementation of works, preparation of construction cost estimates and other cost studies, evaluation of the effectiveness of construction projects using simple methods. | | | | | | |
| project | | mes and reference to the | educational results for | a field of study | | | |
| Know | vledge: | | | - | | | |
| 1. Stud | | lements of the economics of desig | gn, implementation, operation o | of facilities and construction | | | |
| 2. Stud | | re and costing principles in the co W15] | nstruction industry, the process | s of determining and formulating | | | |
| 3. Stud K_W11 | | oment cost and the rules of their p | preparation, selected methods of | of planning and cost control - [- | | | |
| | | ethods for assessing the econom | ic efficiency of construction pro | jects - [-K_W17] | | | |
| Skills | | | | | | | |
| [-K_U1 | 5] | a construction cost estimate for the | | ng a cost estimation software) - | | | |
| | | the cost of a construction project | | | | | |
| Student can choose the method and apply techniques for the account of investment profitability - [-K_U17] Student is able to assess the impact of planned decisions in terms of economic and financial - [-K_U16] | | | | | | | |
| | ent is able to assess t Il competencies: | | terms or economic and financi | iai - [-N_U10] | | | |
| | • | ed to use economic principles in a | all phases of the investment pr | ncess - [-K KOA] | | | |
| | 0 | y to work in a team - [-K_K01] | an phases of the investment pro- | | | | |
| | | se in accordance with the rules of | professional ethics at every st | age of the investment process - | | | |
| [-K_K1 | | | | - , | | | |

| Assessment methods of study | outcomes | | | | |
|--|--|---|--|--|--|
| Lecture - written exam | | | | | |
| exercise - final test | | | | | |
| exercise design - preparing cost estimate for the indicated range of works perf | formed on the basis of | the bill of quantities | | | |
| The scale of assessments determined% of: | | | | | |
| 90 very good (A) | | | | | |
| 85 good plus (B) | | | | | |
| 75 good (C) | | | | | |
| 65 sufficient plus (D) | | | | | |
| Sufficient 55 (E) | | | | | |
| Less than 54 insufficient | | | | | |
| Course description | | | | | |
| Construction as a branch of the national economy. The specificity of the const condition of the building. Forms of payment and pay for the works. Bills of cost places of their origin, according to media costs resulting). Determinants of pro- types of cost studies in construction. Cost calculations in the pre-investment p of costs. General and specific rules przedmiarowania works. Method of calcula cost and rules for their use. Calculation of the individual components as estima Valuation of the cost of design work. Monitoring costs during execution of the economics of operation of buildings. Elements of financial analysis in construct determining. Evaluation of the effectiveness of construction projects - the crite effectiveness of construction projects. | ts (generic system, spr cess costing in constru hase. Types of estimat ating price estimate. No ate. Principles for calcu work. Cost control. Sel tion companies, financ | eadsheet, according to action. Functions and tes. Collective statement prmative base and price- ulating the individual. ected elements of the tial result and the rules | | | |
| Didactic methods: informative lecture, problem lecture | | | | | |
| Basic bibliography: | | | | | |
| 1. Pałaszewski T.; Koszty i ceny w budowlanej działalności inwestycyjnej, PW | N, Warszawa 1989, | | | | |
| 2. Smoktunowicz E.; Kosztorysowanie obiektów i robót budowlanych, Polcen, Warszawa 2001 | | | | | |
| 3. Zajączkowska.T. Kalkulacja kosztorysowa i jej komputerowe wspomaganie, | | | | | |
| 4. Werner W.A.; Proces inwestycyjny w budownictwie Oficyna Wydawnicza Po | olitechniki Warszawskie | ej Warszawa 2000, | | | |
| Additional bibliography: | | | | | |
| 1. Rowiński L.,Mikoś J. Organizacja i ekonomika w budownictwie. PWN, Warszawa, 1977 | | | | | |
| 2. Duraj J. Podstawy ekonomiki przedsiębiorstwa, PWE, Warszawa 2004 | | | | | |
| 3. Vademecum kosztorysanta, Ośrodek Wdrożeń Ekonomiczno-Organizacyjny | ych Budownictwa, Pror | mocja, Warszawa 2002 | | | |
| 4. Rozporządzenie Ministra Infrastruktury z dnia 18 maja 2004r. w sprawie okr kosztorysu inwestorskiego, obliczania planowanych kosztów prac projektowyc budowlanych określonych w programie funkcjonalno ? użytkowym (Dziennik L 24 czerwca 2004r. | h oraz planowanych ko | osztów robót | | | |
| 5. Standardy kosztorysowania robót budowlanych, Stowarzyszenie Kosztorysowania robót budowlanych | antów Budowlanych, W | /arszawa 2005 | | | |
| Result of average student's w | orkload | | | | |
| Activity | Time (working hours) | | | | |
| 1. Participation in lectures | | 30 | | | |
| 2. Participation in classes | | 15 | | | |
| 3. Participation in project classes | 15 | | | | |
| 4. Preparation for classes | 5 | | | | |
| 5. Preparation of projects | 10 | | | | |
| 6. Preparation for final test | 5 | | | | |
| 7. Preparation for exam | 10 | | | | |
| Student's workload | | | | | |
| Source of workload | hours | ECTS | | | |
| Total workload | 75 | 4 | | | |
| Contact hours | 53 | 2 | | | |
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