

| <b>STUDY MODULE DESCRIPTION FORM</b>  |   |   |
|---|---|---|
| Name of the module/subject<br><b>Building Management</b>  |   | Code<br><b>1010102131010111986</b>  |
| Field of study<br><b>Civil Engineering second-cycle studies</b>   | Profile of study (general academic, practical)<br><b>general academic</b> | Year /Semester<br><b>2 / 3</b>  |
| Elective path/specialty<br><b>Costruction Engineering and Management</b>  | Subject offered in:<br><b>Polish</b>                                      | Course (compulsory, elective)<br><b>elective</b>  |
| Cycle of study:<br><b>Second-cycle studies</b>  | Form of study (full-time,part-time)<br><b>full-time</b>                   |   |
| No. of hours<br>Lecture: <b>15</b> Classes: <b>-</b> Laboratory: <b>-</b> Project/seminars: <b>15</b>   |   | No. of credits<br><b>3</b>  |
| Status of the course in the study program (Basic, major, other)<br><b>major</b>   |   | (university-wide, from another field)<br><b>from field</b>  |
| Education areas and fields of science and art<br><b>technical sciences</b><br><b>Technical sciences</b>   |   | ECTS distribution (number and %)<br><b>3 100%</b><br><b>3 100%</b>  |
| <b>Responsible for subject / lecturer:</b><br><br>dr inż. Tomasz Thiel<br>email: tomasz.thiel@put.poznan.pl<br>tel. 616652474<br>Wydział Budownictwa i Inżynierii Środowiska<br>ul. Piotrowo 5, 60-965 Poznań   |   |   |
| <b>Prerequisites in terms of knowledge, skills and social competencies:</b>   |   |   |
| 1   | <b>Knowledge</b>  | The student knows the basics of construction, building physics, planning and calculation works - at KRK6.<br>He knows the issues concerning the renovation and modernization of buildings, and the basis for the assessment of the efficiency of investment - at KRK6   |
| 2   | <b>Skills</b>   | The student can describe the state of individual elements of the building, determine the type and extent of damage, repair works carried out calculations and plan their course in time. He can propose amendments to the building and determine the scope of modernization works, as well as the estimated cost of these works and the time course. Able to gather information about the building from various sources - at KRK6 |
| 3   | <b>Social competencies</b>  | The student is aware of having the fullest possible knowledge of the construction work, which is the basis for facility management. He knows that at the stage of facility management will work with the various players in the process - at KRK6   |
| <b>Assumptions and objectives of the course:</b><br>Understanding the basics of building facilities management, selected issues concerning the operation and maintenance of buildings (consumption of buildings, energy rating of the building and premises, the impact of the building on the environment, the nature and conditions of the operation, planning, operation and maintenance of buildings). Obtaining knowledge about preparation, preparation and analysis of the management plan of the building or buildings for various purposes. Facility Manager - to know the scope of expectations and competencies in the area of building management |   |   |
| <b>Study outcomes and reference to the educational results for a field of study</b>   |   |   |
| <b>Knowledge:</b>   |   |   |
| 1. Student wie czym jest nieruchomość zabudowana jako przedmiot zarządzania i wie jakie są funkcje zarządcyThe student knows what the property is built as an object of management and know what are the functions of manager - [K_W16]   |   |   |
| 2. The student knows what is the maintenance of the building and equipment of the building - [K_W08, K_W13]   |   |   |
| 3. The student knows what the build options strategies built-up property management - [K_W01]   |   |   |
| 4. The student knows the roles, tasks, basic domains and areas of integration Facility manager - [K_W16, K_W19]   |   |   |
| <b>Skills:</b>  |   |   |
| 1. The student knows the roles, tasks, basic domains and areas of integration Facility manager - [K_U12, K_U13]   |   |   |
| 2. Able to determine the types and structure of costs and revenues during the operational phase of the building - [K_U10]   |   |   |
| 3. Able to determine the types and structure of costs and revenues during the operational phase of the building... - [K_U10]  |   |   |
| <b>Social competencies:</b>   |   |   |

1. The student is able to formulate an opinion on the operation of the building and the structure of costs and revenues within the operation of the building - [K\_K02, K\_K03, K\_K07]
2. He understands the importance of cooperation with all actors present in the process of building management - [K\_K01, K\_K06]
3. He knows what is the simultaneous consideration of the technical aspects, economic, environmental and social development in the case of the preparation of the management plan property - building - [K\_K01, K\_K02, K\_K03, K\_K04, K\_K06, K\_K08]

### Assessment methods of study outcomes

As a form of assessment of student work is carried out:

\* 1 The final test of the lecture;

The scale of assessments determined% of:

90 very good (A)

85 good plus (B)

75 dobra (C)

65 sufficient plus (D)

51 is sufficient (E)

below 51 deficient (F)

### Course description

Basics of building facilities management. Management plans for buildings for various purposes. Selected issues concerning the operation and maintenance of buildings (consumption of buildings, energy rating of the building and premises, the impact of the building on the environment, the nature and conditions of the operation, planning, operation and maintenance of buildings). Examples of software for maintenance and facility management. Facility management in facility management.

#### Basic bibliography:

1. Podstawy zarządzania nieruchomościami, Gawron H., Wyd. Uniw. Ekon. w Poznaniu, Poznań, 2010
2. Zużycie łączne budynków w szacowaniu i zarządzaniu nieruchomościami, Żróbek R., Educaterra, Olsztyn, 1998
3. Eksploatacja nieruchomości budynkowych, poradnik zarządcy, Olearczuk E., COIB, Warszawa, 2005
4. Plany zarządzania nieruchomościami ? modele, metody narzędzia, Sobczak A., Wyd. Poltext, Warszawa, 2010
5. Podstawy zarządzania nieruchomościami, Gawron H., Wyd. Uniw. Ekon. w Poznaniu, Poznań, 2010
6. Zużycie łączne budynków w szacowaniu i zarządzaniu nieruchomościami, Żróbek R., Educaterra, Olsztyn, 1998
7. Eksploatacja nieruchomości budynkowych, poradnik zarządcy, Olearczuk E., COIB, Warszawa, 2005
8. Plany zarządzania nieruchomościami ? modele, metody narzędzia, Sobczak A., Wyd. Poltext, Warszawa, 2010

#### Additional bibliography:

1. Podstawy zarządzanie nieruchomościami, pr. zb. pod. red. M. Bryxa, Wyd. Poltext, Warszawa, 2009
2. Przygotowanie planu zarządzania nieruchomością, Gawron H., AE w Poznaniu, Poznań, 2008
3. Podstawy zarządzanie nieruchomościami, pr. zb. pod. red. M. Bryxa, Wyd. Poltext, Warszawa, 2009

### Result of average student's workload

| Activity                                | Time (working hours) |      |
|---|----------------------|------|
| 1. Udział w wykładach                   | 15                   |      |
| 2. Przygotowanie do zaliczenia wykładów | 15                   |      |
| Student's workload                      |                      |      |
| Source of workload                      | hours                | ECTS |
| Total workload                          | 75                   | 3    |
| Contact hours                           | 33                   | 1    |
| Practical activities                    | 12                   | 0    |