

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Weak spots in the buildings		Code 1010102131010114019
Field of study Civil Engineering second-cycle studies	Profile of study (general academic, practical) general academic	Year /Semester 2 / 3
Elective path/specialty Costruction Engineering and Management	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: - Laboratory: - Project/seminars: -		No. of credits 2
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 %) 2 100% 2 100%
Responsible for subject / lecturer: DSc. Eng. Barbara Ksit email: email: barbara.ksit@put.poznan.pl tel. tel. 48 61 6652864 Civil and Environmental Engineering Piotrowo 5, 60-965 Poznań		Responsible for subject / lecturer: DSc. Eng. Darek Janiszewski email: email: darek.janiszewski@put.poznan.pl tel. tel 48 61 6652870 Civil and Environmental Engineering Piotrowo 5, 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	knowledge after first cycle studies after the civil engineering course or other technical studies
2	Skills	Student can design a construction barrier (e.g.wall, roof) due to thermals condition and taking into account the moisture conditions and static.
3	Social competencies	Awareness of the need to constantly update and supplement knowledge construction and engineering skills
Assumptions and objectives of the course: Broadening and deepening knowledge of design, construction and renovation of buildings		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. She/He knows rules about bulding barrier, knows rules about calculation - [K_W02,K_W03,K_W04,K_W07]]		
2. She/He knows the basic principles of work of building elements - [K_W02,K_W03,K_W04,K_W07]		
3. She/He knows the general and the technical requirements for design of building - [K_W02,K_W03,K_W04,K_W07]		
4. She/He knows the modern solutions and requirements buildings - [K_W02,K_W03,K_W04,K_W07]		
Skills:		
1. She/He can classify buildings and recognize the state of emergency - [K_U01, K_U018, K_U05]		
2. She/He can describe and analyse the causes of the problems of in the building - [K_U01,K_U018,K_U05]		
3. She/He can design a proper repair solutions - [K_U01,K_U018,K_U05]		
Social competencies:		
1. She/He is acquires the ability to work in a team - [K_U16, K_K05K_K01]		
2. She/He is able to set priorities for the implementation of specific actions - [K_U16, K_K05K_K01]		
Assessment methods of study outcomes		

<p>-Assessment of knowledge: activity during classes and a lectures. Points might be earned for: the activity during the classes, knowledge presented during the exam. The grading scale determined% from: 90 very good (A) 85 good plus (B) 75 Good (C) 65 Adequate plus (D) 55 Sufficient 55 (E) Less than 54 inadequate (F) In doubtful cases the credit is extended oral worship. exercises auditorium: Term paper and presentation in the class.</p>		
Course description		
<p>-Lecture: Discussion of structural elements: masonry-materials, causes scratches, repair ... Presentation of innovative solutions "weak spots" in the building point types Classes: Implementation and offer technical expertise of a building or building components.</p>		
<p>Basic bibliography: 1. Praca zbiorowa pod kier. P .Klemma: Budownictwo ogólne t.2 wyd. Arkady 2005 2. Praca zbiorowa pod kier. P .Klemma? Budownictwo ogólne t.1,2,3 wyd. Arkady 2005 3. Vademecum projektanta : architektura, budownictwo, wnętrza : prezentacja nowoczesnych technik budowlanych / Przemysław Markiewicz. 4. Konstrukcje murowe : remonty i wzmocnienia / Lech Rudziński.</p>		
<p>Additional bibliography: 1. Wentylacja dachów i stropodachów : poradnik / Krzysztof Patoka. 2. B.Ksit,B.Monczyński: Zabezpieczenie elementów budynku znajdujących się w gruncie. Izolacje przeciwwilgociowe i przeciwwodne. Verlag Daschofer sp.z o.o.2011 3. B.Ksit,B.Monczyński: Izolacje przeciwwilgociowe i przeciwwodne dachów płaskich i tarasów. Verlag Daschofer sp.z o.o.2012 4. aktualne normy</p>		
Result of average student's workload		
Activity	Time (working hours)	
1. 1 Preparing to pass the lecture	5	
2. Participation for lectures	15	
3. Participation in the consultation (minimum three consultations)	3	
Student's workload		
Source of workload	hours	ECTS
Total workload	50	2
Contact hours	18	1
Practical activities	10	0