

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Construction Engineering		Code 1010101151010110063
Field of study Civil Engineering First-cycle Studies	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 5
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 30 Classes: - Laboratory: - Project/seminars: 15		No. of credits 4
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences		ECTS distribution (number and %) 4 100%
Responsible for subject / lecturer: prof. nadzw. dr hab. Inż. Tomasz Z. Błaszczczyński email: tomasz.blaszczynski@put.poznan.pl tel. 61 665 28 61 Faculty of Civil and Environmental Engineering ul. Piotrowo 5, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic knowledge of building materials, physics and basic methods of mathematical analysis, strength of materials, structural mechanics
2	Skills	Students can: use-programs Excel (basic features) identify and describe building materials and their basic physical characteristics, can provide a layer of individual partitions, understands the basic laws governing the flow of heatbudyunku, wyznaczać naprężenia
3	Social competencies	Awareness of the need to constantly update and supplement knowledge construction and engineering skills. Understand the need for lifelong learning and knows how to interact and work in a group, taking the different roles.
Assumptions and objectives of the course: -Maximum knowledge transfer of construction engineering bases.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student knows norms and guidelines of designing of construction objects and their elements, both within the range of materials and technology. - [-] 2. Student knows the rules of constructions and the designing of masonry structures. - [-] 3. Student knows rules of the constructions and analysis of chosen construction engineering objects and buildings - [-] 4. Student knows basic regulations of the building law concerning designing and construction of construction engineering objects and buildings. - [-]		
Skills:		
1. Student can evaluate and make composition of basic loads acting on building objects. - [-] 2. Student can design chosen elements and simple masonry structures. ektować wybrane elementy i proste konstrukcje murowe. - [-] 3. Student can design simple foundations for construction engineering and buildings. - [-] 4. Student can select materials and technologies of realization for different construction engineering objects and buildings. - [-] 5. Student can apply basic regulations of the building law to the designing of construction engineering objects and buildings. - [-]		
Social competencies:		

1. Student is responsible for the honesty of obtained results of his own works and their interpretation. - [-]
2. Student independently supplements and extends the knowledge of within the range of modern processes and technologies in case of construction engineering. - [-]
3. Student has a consciousness of the necessity of the lifting of professional and personal competences. - [-]
4. Student can formulate opinions on the subject of technical and technological processes in construction. - [-]
5. Student pursues with rules of the ethics. - [-]

Assessment methods of study outcomes

-Assessment of knowledge:
 activity during classes and a lectures
 project,
 written examination.

The grading scale determined from:

points:	grade:
upper 100	excellent (A+)
91	very good (A)
81	good plus (B)
71	good (C)
61	adequate plus (D)
51	adequate (E)
lower 50	inadequate (F)

Course description

-Elements of buildings part 2.
 Masonry structures and its designing.
 Fire protection of buildings.
 Bases of construction acoustics.

Basic bibliography:

1. Praca zbiorowa pod kier. P .Klemma: Budownictwo ogólne t.2 wyd. Arkady 2005
2. Płoński, Pogorzelski : Fizyka budowli Arkady 1976
3. aktualne normy(PN-EN ISO 6946:2008,PN-EN ISO 13370, PN-EN ISO 10211-1:1998,PN-EN ISO 13788:2003)
4. Rozporządzenie Ministra Infrastruktury z 12 kwietnia 2002 w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz. U. nr 75 z 15 czerwca 2002r., poz.690 wersja:2009.07.08 lub późniejsza oraz z 2003 r. Nr 33, poz. 270)
5. Nowoczesne wyposażenie domu jednorodzinne, praca zbiorowa pod red. prof. dr hab. inż. Halina Koczyk, PWRiL Poznań
6. J. Jasiczak, M. Kuinski, M. Siewczyńska - Obliczanie izolacyjności termicznej i nośność murowanych ścian zewnętrznych. Wyd. Politechniki Poznańskiej

Additional bibliography:

1. B.ksit,B.Monczyński: Zabezpieczenie elementów budynku znajdujących się w gruncie. Izolacje przeciwwilgociowe i przeciwwodne.Verlag Daschofer sp.z o.o.2011
2. B.Ksit,B.Monczyński: Izolacje przeciwwilgociowe i przeciwwodne dachów płaskich i tarasów. Verlag Daschofer sp.z o.o.2012
3. Hydroizolacje w budownictwie, Maciej Rokiel 2005

Result of average student's workload

Activity	Time (working hours)
1. participation in projects	15
2. participation in lectures	30
3. participation in the consultation	7
4. project realisation	15
5. preparation to and attendance in examination	26

Student's workload

Source of workload	hours	ECTS
Total workload	93	4
Contact hours	52	2
Practical activities	41	2