# **Faculty of Civil and Environmental Engineering**

STUDY MODULE DESCRIPTION FORM				
Name of the module/subject Civil Engineering	Co.	de 10104151010110063		
Field of study	Profile of study (general academic, practical)	Year /Semester		
Civil Engineering First-cycle Studies	general academic	3/5		
Elective path/specialty	Subject offered in:	Course (compulsory, elective)		
-	Polish	obligatory		
Cycle of study:	Form of study (full-time,part-time)			
First-cycle studies part-tir		e		
No. of hours		No. of credits		
Lecture: 20 Classes: 8 Laboratory: -	Project/seminars: 12	6		
Status of the course in the study program (Basic, major, other) (university-wide, from another field)				
major	field			
Education areas and fields of science and art		ECTS distribution (number and %)		
technical sciences		6 100%		
Technical sciences		6 100%		

# Responsible for subject / lecturer:

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Faculty of Civil and Environmental Engineering

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# 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 heatbudynku, 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. [-K\_W07]
- 3. Student knows rules of the constructions and analysis of chosen construction engineering objects and buildings [-K\_W09]
- 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. [-K\_U02]
- 2. Student can design chosen elements and simple masonry structures.ektować wybrane elementy i proste konstrukcje murowe. [-K\_U07]
- 3. Student can design simple foundations for construction engineering and buildings. [-K\_U09]
- 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. [-K\_U19]

# Social competencies:

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- 1. Student is responsible for the honesty of obtained results of his own works and their interpretation. [-K\_K02]
- 2. Student independently supplements and extends the knowledge of within the range of modern processes and technologies in case of construction engineering. [-K\_K03]
- 3. Student has a consciousness of the necessity of the lifting of professional and personal competences. [-K\_K06]
- 4. Student can formulate opinions on the subject of technical and technological processes in construction. [-K\_K07]
- 5. Student pursues with rules of the ethics. [-K\_K10]

## Assessment methods of study outcomes

-Assessment of knowledge:

activity during classes and a lectures

project,knowledge presented during the colloquium

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.

# 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 późniejsze oraz z 2003 r. Nr 33, poz. 270)
- 5. Nowoczesne wyposażenie domu jednorodzinnego, praca zbiorowa pod red. prof. dr hab. inż. Halina Koczyk, PWRiL
- 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: Zabezpierczenie 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
- 3. Hydroizolacje w budownictwie, Maciej Rokiel 2005

# Result of average student's workload

Activity	Time (working hours)
1. participation in lectures	20
2. participation in ex. auditorium	8
3. participation in projects	12
4. project realisation	15
5. preparation to ex. auditorium	10
6. preparation to attend and pass the colloquium	10
7. participation in the consultation	8
8. preparation to and attendance in examination	20

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# Poznan University of Technology Faculty of Civil and Environmental Engineering

Student's workload				
Source of workload	hours	ECTS		
Total workload	145	6		
Contact hours	52	2		
Practical activities	65	3		