

Code	III.9.
Course Title (English)	Civil Engineering
Course Title (Polish)	Podstawy budownictwa
Credits	2 ECTS

*Language of instruction*      **English**

*Compulsory for Profile:*      Computer Modelling and Simulation (CMS), Intelligent Energy (IE), Biotechnology for Environmental Protection (BI), Business and Technology (BT)

*Type of studies*      BSc studies

*Unit running the programme*      Faculty of Civil Engineering at Czestochowa University of Technology

*Course coordinator and academic teachers*      **Dr N. Sołkiewicz-Kos, PhD**  
Dr N. Sołkiewicz-Kos, PhD, M. Zadworny, DSc

<i>Form of classes and number of hours</i>	Semester	Lec.	Tut.	Lab.	Proj.	Sem.	Credit points
	III	15			15		2

*Learning outcomes*      Understanding of bases processes in civil engineering. The knowledge of BASIC principles common to all types of buildings.

*Prerequisites*      The BASIC knowledge of mathematics, physics and drawings practice. General knowledge of three-dimensional environment formation with implementation of modern technics and technologies.

*Course description*      **LECTURES:**  
Building site: Earth work, diggins batter bord. Foundations – specification. Brick walls. Brick structures. Chmney, flu, smoke flu. Door lintel. Window lintel. Floors structure – specifiation. Roof types – specification. Roof members. Types of stairs. Stairs and steps. Stairecase. Roof covering. Window types. Door types. Water proofing. Heat insulation.

Vapour barrier.

**PROJECT:**

Location plan. Water and gas connections. Sewage discharge. Stormwater drainage. Septic tank. Rubbish bin place. Section building. Wall foundation. Ground floor. First floor. Attic. Details.

*Form of assessment* Submission and defence of own projects. Positive results in tests based on lectures. Required active participation in designing classes as well as in lectures.

*Basic reference materials*

1. Millais M.: "Building structures :from concept tu design." Wydawnictwo Taylor & Francis.
2. Killer W.K.: „Polsko-angielsko-niemiecki ilustrowany słownik budowlany”. Wyd. Arkady 2006.
3. Orr.F. : "Professional practice in Architecture." Wydawnictwo Van Nostrand Reinhold Company". New York 1982.

*Other reference materials*

For Polish-speaking students:

1. Żencykowski W.: „Budownictwo ogólne. Elementy I konstrukcje budowlane” Tom 2/1, Tom 2/2 . Wyd. Arkady 1990
2. Pawłowski P. : „Budownictwo ogólne.” PWN 1979
3. Markiewicz P.: „Vademekum projektanta. Prezentacja nowoczesnych technologii budowlanych.” Wyd. „Archi plus”. Krakow 2001.
4. Markiewicz P.: „Vademekum projektanta. Detale projektowe nowoczesnych technologii budowlanych.” Wyd. „Archi plus”. Krakow 2001.
5. Markiewicz P.: „Budownictwo ogólne dla architektów”. Wyd. Archi-Plus. Kraków 2006.
6. Lichołaja L.: „Budownictwo ogólne”. Tom 3 .Elementy budynków . Podstawy projektowania”. Praca zbiorowa pod kierunkiem Lecha Lichołaj. Wyd. Arkady .Warszawa 2008

e-mail of the course coordinator and academic teachers	nkos@bud.pcz.czest.pl
Average student workload (teaching hours + individ.)	
Remarks:	
<i>Updated on:</i>	<i>04.04.2012</i>