Study program: Civil Engineering

Course: Building Construction

Professor/Assistant: PhD Danijela B. Zlatković / Nemanja Petrović

Status of course: compulsory

ECTS credits: 6

Pre-requisites: none

Aims of the course:

The objective of the Building Construction course is to allow a student to:

- identify the basic elements of building structures;
- adopt knowledge in the field of the masonry building constructions;
- learn basic details of building structures and their connections;
- assess what kind of structural elements should be applied for different purposes of buildings.

Learning outcomes:

After taking the course, the student will be able to:

- ability apply the acquired knowledge in project task design;
- recognize the problems of construction in practice and propose solutions in the elements of building constructions;
- participate independently in the construction of high-rise buildings in all individual phases and be capable of applying the knowledge professionally.

Syllabus:

Theoretical part

Buildings and their characteristics; walls and poles; building foundation; insulation from moisture; floor joist constructions; vertical communications; roof constructions; flat roofs; chimneys.

Practical part

Creation of 6 independent graphic works in which the knowledge gained through lectures is applied. Professional practice at field facilities.

Literature:

1. Radovic, Z. *Građ. Arhitektonske konstrukcije*, University of Niš, Niš, 1995.
2. Mittag, M. *Građevinske konstrukcije*, Građevinska knjiga, 2003.
3. Krstić, P. *Arhitektonske konstrukcije* 1, Naučna knjiga, Belgrade, 1972.

Number of active classes			Other forms of teaching:
Lectures: 2	Practical classes: 2	Research work: 0	

Teaching methods:

Audit lectures with interactive views of the details of constructive circuits. Practical exercises with an active approach to solving practical problems from technical practice. Application of acquired knowledge in solving concrete problems in the field.

Grading system (maximum 100 points), **grading scale** from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.

Pre-commitments	**points**	**Final exam**	**points**
activity during lectures	10	written exam	20
practical work	20	oral exam	10
colloquium(s)	20 + 20		
Sum	**70**	**Sum**	**30**