Study program: Communal Engineering

Course: Sustainable Development of Settlements and Communities

Professor: Aleksandra T. Marinković

Status of course: compulsory

ECTS credits: 7

Pre-requisites: none

Aims of the course:

Acquiring basic knowledge of: approaches to settlement planning that result in creation of sustainable spatial units. Students are introduced to the characteristics and possibilities of applying different approaches to planning, which influence the attainment of social and spatial quality of the settlement, while respecting natural characteristics of the site.

Learning outcomes:

A positive outcome is reflected in developing a student's ability to:

- examine and analyze factors that affect the planning of a settlement, with minimal impact on the environment;
- understand the settlement planning process, in accordance with the principles of sustainable development, and recognize the characteristics of spatial organization that promote sustainability.

Syllabus:

Theoretical part

The elements of spatial organization of settlements examined from the aspect of: mutual relations of functional units; motor and pedestrian traffic flows and street network systems; the structure of residential streets; design and functionality of public areas; connection of the social and spatial structure of the settlement; affirmation of social capital by establishing a place of social integration.

Practical part

Preparation of semester projects - examination of the possibility for applying modern spatial planning techniques in a specific location, with pre-existing conditions.

Literature:

1. Džejkobs, DŽ., *Smrt i život velikih američkih gradova*, Mediterran Publishing, Novi Sad, 2011.
2. Mostafavi, M., Doherty, G. (eds), *Ecological Urbanism, Harvard University Graduate School of Design, Lars Mueller Publishers*, Baden, 2010.
3. Ng, E. (ed.), *Designing High-Density Cities: For Social and Environmental Sustainability*, Routledge, London, 2009.
4. Reba, D., *Ulica - element strukture i identiteta*, Orion art, Belgrade, 2010.
5. Radović, R., *Forma grada, Građevinska knjiga*, Belgrade, 2009.
6. Krier, R., *Gradski prostor*, Građevinska knjiga, Belgrade, 2000.
7. Cuthbert, A., *Understanding Cities*, Routledge, New York, 2011.
8. Petrović, M., *Sociologija stanovanja*, ISSIFF, 2004.
9. Radivojević, R., *Sociologija naselja*, Fakultet tehničkih nauka Novi Sad, 2004.

Number of active classes			Other forms of teaching:
Lectures: 4	Practical classes: 3	Laboratory classes: 0	

Teaching methods:

Combination of interactive approach with practical problem solving.

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	50
colloquium(s)	40		
Sum	**50**	**Sum**	**50**