

Name of the course:

ECOPOLIS: CONCEPTS OF ECOLOGICAL RESILIENCE OF THE CITY

Teachers: Assitant Professor Ph.D. Ivan Simić

Status of the subject: elective

Number of ECTS credits: 3

Subject goal

The objective of the course is to study contemporary environmental concepts of urban resilience that have significantly changed the urban theory and practice over the last few decades. Climate change and environmental problems pose significant challenges to cities around the world. Their development and survival now depend on the application of new concepts through adjustment and adaptation strategies to climate change, strengthening resilience, and systematic implementation of sustainability principles in all spheres of urban development. It includes the improvement of the existing physical structure as well as the processes of building new ecological urban forms. The course will study theoretical concepts and models of environmentally resilient cities and their application in case studies of contemporary cities with high environmental ratings.

Outcome of the subject

Adequate knowledge of urban design, planning, and the skills involved in the planning process. The graduate will acquire knowledge of:

1. theories of urban design and the planning of communities;
2. the influence of the design and development of cities, past and present on the contemporary built environment;
3. current planning policy and development control legislation, including social, environmental, and economic aspects, and the relevance of these to design development.

Subject content

Theoretical teaching consists of introducing students to the basic theoretical principles of urban ecology and the interdisciplinary relations of ecology and urbanism/architecture. After they acquire basic theoretical knowledge in the field, the students ready for independent research work. It involves selecting and conducting a case study of one of the cities that have applied knowledge in the interdisciplinary field of ecology, urbanism and architecture, i.e., implemented through projects, plans, policies, strategies, etc. In the final phase of the teaching process, students will participate in a workshop where, in collaboration with visiting experts in relevant fields, they will have the opportunity to apply their knowledge to a practical project whose topic will be subsequently identified. *Practical learning* is in the form of interactive teaching - debate, presentation, action research.

Literature:

- Saks, Dž. (2014) Doba održivog razvoja. Beograd: Službeni glasnik.
- Gidens, E. (2009) Klimatske promene i politika. Beograd: Klio
- Pickett, Steward. T. A., Cadenasso, M. L., McGrath, B. (2013) Resilience in Ecology and Urban Design – Linking Theory and Practice for Sustainable Cities. London: Springer
- Downton, P. (2009). Ecopolis: Architecture and cities for a changing climate. Springer, Dordrecht

Number of active teaching classes

Lectures: 1	Exercises: 1	OFL: 0	SRW: 0	Other: 0
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Method of carrying out the teaching

Ex-cathedra lectures, interactive lectures, and workshop

Evaluation of knowledge (maximum number of points 100)

Pre-exam obligations	total points 40	Final exam	total points 60
activity during lectures	10	portfolio	60
colloquium(s)	30		