

**COURSE TITLE:
ECOLOGY AND ENVIRONMENTAL PROTECTION**

Institute/Division: A5 - Institute of City and Regional Design; Chair of Spatial Planning and Environment Protection

Number of contact hours: 30

Course duration: 1 semester (Fall)

ECTS credit: 3

Course description: Lectures present knowledge on the activities aimed at balancing the development, being the basis for shaping the conditions of human life in urbanized areas. The questions presented concern the connections between the manner of managing space with environmental quality, the manner of limiting the impacts of improper management of natural resources, methodology of assessing the environmental impact of a development (EIA), and the influence of the idea of conservation of the natural environment on the shaping of planning and architectural assumptions.

The seminars deal with learning the influence of various development activity on the transformations of individual components of the environment and ways of countering them.

Students learn the methods of analyzing the environment and identification of determinants of the ecological & physical geographic type, and are given an opportunity to consider the environmental impact of individual developments in specific locations

The subjects and manners of conducting the seminars change every year.

The classes conducted should bring about the ability to assess the influence of planning and implementation activities on the existing environment, and methods of balancing development through protection of the values and rational asset management.

Literature: Basic literature on the subject of urban design and ecology and e.g.

- Banham R., The Architecture of Well tempered Environment 1969-1984 . Detail 6/2002
- Barreneche R., Buildings under Power, Architecture 5/ 2000
- Directive Of The European Parliament And Of The Council On The Promotion Of The Use Of Energy From Renewable Sources
- Gauzin-Müller D., Sustainable Architecture and Urbanism. Concepts, Technologies, Examples, Basel, Berlin, Boston 2002
- Johansson T.B., Kelly H., Reddy A.KN., Williams R.H., Renewable s fuels and electricity for a growing world economy. Defining and Achieving the Potential. Washington D.C. 2009
- Schittich Ch., Thoughts in Ecological Building , Architecture and Urbanism 5/1997
- Steiger P., Plenar – Domus, Baumeister 10/ 1996
- Williams D. E. FAIA Sustainable design: ecology, architecture and planning , Hoboken, New Jersey 2007

Course type: Field lectures and seminars

Assessment method: Final test and presentation

Primary target group: students of Master degree

Lecturer: Elżbieta Węclawowicz-Bilska Prof. PhD DSc Arch.,
Magdalena Marx-Kozakiewicz PhD, Arch.

Contact person: Elżbieta Węclawowicz-Bilska, Prof. PhD DSc Arch. phone #: +48 12 628 24 66, e-mail: eweclaw@poczta.onet.pl

Deadline for application: beginning of the Fall Semester (according to the schedule)