



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Rural Architecture Design

### Course

Field of study

Architecture

Area of study (specialization)

-

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

III/6

Profile of study

general academic

Course offered in

english

Requirements

compulsory

### Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

Tutorials

0

Projects/seminars

45

### Number of credit points

3

### Lecturers

Responsible for the course/lecturer:

Assoc. Prof. D.Sc. Ph.D. Arch. Hanna Michalak

Responsible for the course/lecturer:

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Faculty of Architecture

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### Prerequisites

- student has a basic knowledge about trends in the development in the field of urban design and principles of vernacular architecture

- student can make a critical analysis of the functioning of the designed area and evaluate the existing functional spatial solutions

- student can identify and formulate the specification of practical tasks in the field of urban design

- student is aware of non-technical aspects and consequences of engineering activities, including their influence on the environment and responsibility for the decisions



- student identifies and resolves correctly dilemmas in terms of various spatial situations in the urban scale

### Course objective

Promoting knowledge in the field of urban and architectural designing in rural areas, in the spirit of vernacularism, with respect to spatial tradition and natural values of the place. It is particularly important to convince students to be sensitive for designing in a way that combines functional and technical requirements for agricultural buildings with aesthetic, compositional and landscape values. In an urban planning context that means primarily searching for architectural solutions suitable for the specificity of the surrounding landscape, emphasizing the agricultural functions of the area and its landscape values. Looking for architectural typology and regional spatial specificity from an anthropogenic perspective shall lead to find suitable forms of buildings.

### Course-related learning outcomes

#### Knowledge

A.W1. architectural design for the implementation of simple tasks, in particular: simple facilities taking into account the basic needs of users, single- and multi-family housing, service facilities in residential complexes, public facilities in an open landscape or in an urban environment;

A.W2. urban design in the scope of implementation of simple tasks, in particular: small building complexes, local spatial development plans, taking into account local conditions and connections, as well as forecasting transformation processes in the settlement structure of towns and villages;

A.W3. records of local spatial development plans to the extent necessary for architectural design;

A.W4. principles of universal design, including the idea of designing spaces and buildings accessible to all users, in particular for people with disabilities, in architecture, urban planning and spatial planning, and ergonomic principles, including ergonomic parameters necessary to ensure full functionality of the designed space and facilities for all users, especially for people with disabilities

#### Skills

A.U1. design an architectural object by creating and transforming space so as to give it new value - in accordance with a given program that takes into account the requirements and needs of all users;

A.U2. design a simple urban complex;

A.U3. prepare planning studies concerning spatial development and interpret them to the extent necessary for designing in an urban and architectural scale;

A.U4. make a critical analysis of the conditions, including the valorization of the land development and building conditions;

A.U5. think and act creatively, using the workshop skills necessary to maintain and expand the ability to implement artistic concepts in architectural and urban design;



A.U6. integrate information obtained from various sources, formulate their interpretation and critical analysis;

A.U7. communicate using various techniques and tools in a professional environment appropriate for architectural and urban design;

A.U9. implement the principles and guidelines of universal design in architecture, urban planning and spatial planning.

Social competences

A.S1. independent thinking to solve simple design problems;

A.S2. taking responsibility for shaping the natural environment and cultural landscape, including the preservation of the heritage of the region, country and Europe.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative assessment:

Assessment of the learning outcomes takes place at each of the several stages of the work on the project in the group forum.

Summary grade:

Summary evaluation consists of: assessment of the knowledge, student's activity and involvement in the term work as well as substantive and graphic quality of the final project presented in the forum of the group (joint analysis and discussion)

Adopted grade scale:

2,0 (unsatisfactory)

3,0 (satisfactory)

3,5 (satisfactory plus)

4,0 (good)

4,5 (good plus)

5,0 (very good)

### Programme content

Design topics carried out within the course include planning of rural areas in the field of designing settlement complexes or individual objects of a residential, production, service and commercial purpose. The topics concern especially less developed rural areas, requiring deliberate actions in the field of development, but also protection of the natural environment and existing antropogenic values.



The emphasis is put especially on methods of rural designing – vernacularism:

- importance of tradition
- adapting design solutions to bioclimatic conditions
- use of pro-ecological solutions
- landscape, cultural, antropogenic and natural context.

Students prepare and present individual solutions of each problem in the rural environment: multifunctional farm located in the given rural settlement of various scales.

### Teaching methods

Lecture with multimedia presentation

eKursy (eLearning Moodle) – online system supporting the process of teaching and distant learning

### Bibliography

Basic

Bogusz Wanda, Projektowanie architektoniczne i budownictwo regionalne, Wydawnictwo Szkolne i Pedagogiczne, Warszawa, 1999, 83-02-03627-7.

Czarnecki Witold, Podstawy ruralistyki z elementami budownictwa wiejskiego, Białystok 2004.

Kamiński Zbigniew J., Współczesne planowanie wsi w Polsce - zagadnienia ruralisty, Politechnika Śląska, 2008, 978-83-7335-515-6.

Neufert Ernst, Architects' Data, 4th edition, John Wiley & Sons, 2012.

Rzymkowski Andrzej, Chowaniec Mieczysław; Planowanie obszarów rolniczych i budownictwo wiejskie, Arkady, Warszawa, 1972.

Thorbeck Dewey, Architecture and Agriculture: A Rural Design Guide, Taylor and Francis, Routledge, 2017.

Wieczorkiewicz Wiesław, Budynek mieszkalny na wsi, Arkady, Warszawa, 1988, 82-213-3379-6.

Wiśniewska Miriam, Planowanie osiedli wiejskich, Arkady, Warszawa, 1984, 83-213-3230-7.0

E-script for the course „Rural Theory”.

Additional

Architektura krajobrazu, (praca zbiorowa), PWN; Warszawa, Kraków, 1979, 83-01-00829-6.

Bogdanowski Janusz, Kompozycja i planowanie w architekturze krajobrazu, Ossolineum Wrocław, 1976.

Burszta Józef (red.), Kultura ludowa Wielkopolski, Poznań, 1964.



Czerwiński Tomasz, Budownictwo ludowe w Polsce, Sport i Turystyka Muza SA, Warszawa, 2006, 83-7495-043-9.

Lenard Jan Z., Tłoczek Ignacy; Budynki w zagrodzie, Warszawa, 1975.

Michalak Hanna, Rewaloryzacja architektoniczna zespołów folwarczno-dworskich jako element równowagi ekologicznej sieci osiedleńczej Wielkopolski, Sprawozdanie z realizacji projektu badawczego KBN Nr 7T07F00819, Poznań 2001, (na prawach maszynopisu), biblioteka Wydziału Architektury Politechniki Poznańskiej.

Pogodziński Zdzisław, Planowanie przestrzenne terenów wiejskich, PWN, Warszawa, 1975.

Tłoczek Ignacy, Dom mieszkalny na polskiej wsi, PWN, Warszawa, 1985, 83-01-04218-4.

Wojciechowski Lech, Budynki inwentarskie w nowoczesnej zagrodzie, Państwowe Wydawnictwo Rolnicze i Leśne, Warszawa, 1984, 83-09-00855-4.

#### Breakdown of average student's workload

	Hours	ECTS
Total workload	90	3,0
Classes requiring direct contact with the teacher	45	1,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	45	1,5

<sup>1</sup> delete or add other activities as appropriate