

BUILDING REFURBISHMENT

Subject code: **06.4-WILŚ- BUD- UIA- RC02**

Subject type: Obligatory

Language of instruction: English

Responsible for the subject: Person currently conducting lectures

Providing education: Department of General Construction

| Type of class | Number of classes per semester | Number of classes per week | Semester | Type of credit | ECTS points |
|--------------------------|--------------------------------|----------------------------|----------|---------------------|-------------|
| Full time studies | | | | | 5 |
| Lecture | 30 | 2 | I | exam | |
| Project | 30 | 2 | | credit with a grade | |
| Part time studies | | | | | |
| Lecture | 18 | 2 | I | exam | |
| Project | 18 | 2 | | credit with a grade | |

SUBJECT OBJECTIVE:

After completing the course, the student has a structured knowledge of the spatial and structural properties of brick buildings in the historical period, conservation doctrines, architectural styles, and European and Polish architectural history.

INITIAL REQUIREMENTS:

History of architecture. General construction. Building Materials.

SUBJECT SCOPE:

Lecture

Spatial and structural properties of masonry buildings in a historical period.

Doctrines and theories of monument protection. Trends and directions in conservation design.

Important events and technical achievements in construction in the modern period.

Important events and dates in the history of brick structures in Poland.

Project

Renovation of a historical building and conceptual design for adaptation of a disused building to a modern utility purpose in terms of functional, constructional, material and technological solutions.

EDUCATIONAL METHODS:

| | |
|---------|--|
| Lecture | conventional, problem oriented, including a programme text |
| Project | methods to deal with problems –case study practical methods based on exercises- observation method, measurements in situ. |

EDUCATION RESULTS:

| Results after completion of the course | Symbol | Verification methods | Type of class |
|---|----------------|--|---------------|
| Knowledge | | | |
| The student has ordered knowledge of the spatial and structural properties of brick buildings in a historical period, conservation doctrines, architectural styles, history of European and Polish architecture | K_W05 | Exam with points | L |
| Abilities | | | |
| The student can carry out a building renovation project and adaptation to modern utility purposes in terms of functional, structural, material and technological solutions | K_U05 K_U07 | Test of abilities, Completion of a project | P |
| Social skills | | | |
| The student thinks and works in a way that enables adaptation and modernization of buildings and built-up areas for new functions. The student can cooperate with relevant organizations and institutions | K_K02 K_K04 | conversation during lectures initiated by the teacher; checking competences during the introduction to classes | L, P |

REQUIREMENTS TO OBTAIN A CREDIT:

| | |
|-------------------------|---|
| Lecture | Credit based on a test with points: |
| | 50% - 60% correct answers – satisfactory, |
| | 61% - 70% satisfactory plus, |
| | 71% - 80% good, |
| | 81% - 90% good plus, |
| | 91% - 100% very good. |
| Project | The condition for a credit is a positive grade for all projects (2 projects)) and for a written test with points. |
| Credit for the subject: | The final grade is the average of the grades: $G = (L+P)/2$: |

STUDENT WORK:

| | | |
|------------------------------|-------------------------|--------|
| Interaction with the teacher | 30l+30p +2ckons , total | 80 h |
| Projects – individual work | 2proj x 30h | 60 h |
| Preparation for the exam | | 10 h |
| Total | 80+ 60+10 | 150 h |
| ECTS for the subject | 150/30 | 5 ECTS |

BASIC LITERATURE:

1. Borusiewicz W.: Konserwacja zabytków budownictwa murowanego. Arkady, Warsaw 1985.
2. Kadłuczka A.: Konserwacja zabytków i architektoniczne projektowanie konserwatorskie Wydawnictwo Politechniki Krakowskiej, Kraków 1999.
3. Małachowicz E.: Konserwacja i rewaloryzacja architektury w zespołach i krajobrazie. Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 1994
4. Materiały konferencyjne VII Forum Konserwatorów „Konserwacja Architektury ceglanej i kamiennego detalu architektonicznego” Toruń 2004.

COMPLEMENTARY LITERATURE:

1. Borusiewicz W.: Budownictwo murowane w Polsce. PWN, Warsaw 1985
2. Zin W. praca zbiorowa: Zabytki urbanistyki i architektury w Polsce . Odbudowa i konserwacja. Arkady, Warsaw 1986.
3. Inżynierskie Problemy Odnowy Staromiejskich Zespołów Zabytkowych, Konferencja Naukowo-Techniczna, Kraków, Politechnika Krakowska.
4. Czasopismo Renowacje

NOTES:

Field studies

SYLLABUS PREPARED BY

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