

## Detailed course description

(SUBJECT CARD)

### INTEGRATED MODULES OF CONSERVATION DESIGN SSII/1\*\*R

**Course title:** MODULE 1: ARCHEOLOGY AND THEORY OF CONSERVATION  
**Course code:** RAr-A-SSII-I-M1:A&TC

**Course title:** MODULE A/1: CONSERVATION DESIGN - DESIGNING IN CULTURAL CONTEXT  
 MODULE B/1: CONSERVATION DESIGN - ADAPTATION AND MODERNIZATION OF HISTORICAL BUILDINGS  
**Course code:** RAr-A-SSII-I-Me:A&TC

**Classification of a course group:** A. ARCHITECTURAL DESIGN / A2. CONSERVATION DESIGN

**Course type:** basic / ~~field-related~~/ general/ specialty-related\*  
 obligatory / ~~elective~~\*

**Field of study:** Architecture and Urban Planning

**Level of study:** second-cycle

**Profile of study:** general academic

**Mode of study:** full-time programme

**Specialty (specialisation):** ----

**Year of study:** 1st

**Semester:** 1st

**Teaching modes and teaching hours:**  
 Lectures – 30 h  
 Seminars - 5 h  
 Design studio - 60 h

**Language/s of instruction:** English

**Number of ECTS credits (according to the study programme):** 7 (2+5)

\* – leave the appropriate option

1. Course objectives:

- theory and practical knowledge in field of building conservation and archeology,
- conservation design, modernization and adaptive reuse of historical buildings
- developing skills and abilities to create new architecture in historical context.

2. Relation of the field-related learning outcomes to modes of teaching and methods of verification as well as to assessment of student's learning outcomes:

symbol	assumed learning outcomes <i>a student who completed the course:</i>	teaching modes	verification methods and learning outcomes assessment
Knowledge: a student knows and understands			
E2A_Wo2	the specific issues of architecture and urban planning in solving complex design problems	Lecture Seminar	Final exam, seminar discussion
E2A_Wo10	the issues related to architecture and urban planning in the context of the multi-sectoral nature of architectural and urban planning design and the need for cooperation with other specialists	Lecture Seminar	Final exam, seminar discussion
E2A_Wo11	data collecting and interpretation within a concept design preparation	Lecture Seminar	Final exam, seminar discussion
E2A_A.W7	basic methods and techniques for maintaining, modernizing and supplementing historic structures	Lecture Seminar	Final exam, seminar discussion
E2A_A.W8	- architectural and urban design as an interdisciplinary skill integrating knowledge from different fields, - use the knowledge in practice in cooperation with various experts	Lecture Seminar	Final exam, seminar discussion

Skills: a student can			
E2A_Uo1	structural, building-related and engineering problems related to the design of buildings	Project, seminar	reviews, activity, final submission
E2A_Uo2	organize work taking into account all phases of work on the design concept	Project	Reviews and corrections activity,
E2A_Uo5	relations between human being and architecture, between architecture and the natural environment, and necessity of adapting architecture to human needs and scale	Project	Reviews and corrections activity,
E2A_A.U6	to elaborate a conservation design of architectural structures and urban layouts, respecting cultural values protection, using proper methods and techniques, regarding technological program and beyond	Project, seminar	reviews, activity, final submission
E2A_A.U7	to prepare a critical analysis and assessment of a conservation design in terms of applied mode of modernization and extension of the culturally valuable facilities	Project, seminar	Reviews and corrections activity,
E2A_A.U14	to prepare architectural and construction documentation in proper scale, referring to concept design	Project, seminar	reviews, activity, final submission
Social competences: a student is prepared to			
E2A_So3	bear responsibility for human, social, cultural, architectural and urban values in the process of environment and heritage protection	Project, seminar	Reviews and corrections, presentations
E2A_A.S4	lifelong learning, including postgraduate study, doctoral school and other forms of education	Project, seminar	Reviews and corrections, presentations

### 3.

3. The content of study programme ensuring learning outcomes (*according to the study programme*):

Knowledge and skills in field of preservation, adaptation, modernization of historical buildings and designing in cultural context.

Basic knowledge in the field of archeology as part of heritage research and protection. Besides, the scope of the course includes advanced methods and techniques of the heritage research, survey and representation, as: H-BIM, Photo-modeling, 3D modeling, photogrammetry, thermo vision, etc.

Knowledge of the theory of conservation, approaches and methods in historical perspective. Contemporary conservation theory in the prism of documents and guidelines (e.g. NID, ICOMOS, UNESCO)

4. Description of methods of determination of ECTS credits:

Type of activity	Number of hours / ECTS credits
Number of course hours regardless of a teaching mode	M1: 30h/ 2ECTS Me: 65h/5ECTS
Student's workload <b>M1</b>	<b>30 h</b>
Student's workload <b>Me*</b>	<b>85 h</b>
Student's workload n'	
The other**	

<b>Total hours:</b>	<b>180 h</b>
<b>Number of ECTS credits allocated to a course</b>	<b>7</b>

5.

Explanation:

\* – student's workload - fill in the types of activities, e.g. *preparation for a course, interpretation of results, making a course report, preparation for an exam, studying sources, making a project, presentation and report, doing written assignment, etc.*

\*\* – the other e.g. *extra course hours*

5. Summary indexes:

- number of course hours and ECTS credits at the course with a direct participation of academic teachers or other persons running the course and supervising students; **95 h / 4 ECTS**
- number of course hours and ECTS credits at the course related to the scientific activity conducted at the Silesian University of Technology in a discipline or in disciplines to which a field of study is assigned - in the case of studies with a general academic profile; **95 h / 4 ECTS**
- number of course hours and ECTS credits at the course developing practical skills- in the case of practical studies;
- number of course hours conducted by academic teachers employed by the Silesian University of Technology as their primary workplace. **95 h**

6. Persons conducting particular modes of courses (name, surname, academic degree or degree in arts, title of professor, business e-mail address):

**Modul M1:** the Head of the Course: M. Żmudzinska-Nowak, PhD., DSc., Associate Professor

Teachers: prof. A. Pelliccio, dr T. Adamczyk-Bomersbach, dr M. Krause, MSc., M. Wałek

**Elective Moduls Me:**

**Module A 1:** the Head of the Course: M. Żmudzinska-Nowak, PhD., DSc., Associate Professor

Teachers: prof. A. Pelliccio, dr J. Swoszowska, dr W. Rdzawska-Augustin, dr R. Nakonieczny, dr R. Winnicki, dr M. Krause, MSc., M. Wałek

**Module B 1:** the Head of the Course: Dr.T. Adamczyk-Bomersbach

teachers: dr J. Swoszowska, dr M. Malzecher, dr M. Krause, dr R. Nakonieczny, dr R. Winnicki,

7. Detailed description of teaching modes:

**LECTURES (Module M1):**

detailed programme's content:

Theory of conservation (basic notions and how to use them in practice)

Theory of conservation in historical development

Conservation and protection in law regulation and strategic guidelines perspective.

Conservation process - survey and research

Archeology - notions, methods, techniques and tools.

Architectural examinations, documentation and representation in conservation research. (traditional approach)

Advanced architectural examinations, documentation and representation in conservation research (digital tools)

Archeological examination in conservation process

Structural examination, stratigraphy in archeology and conservation (invasive methods)

Structural examination, stratigraphy in archeology and conservation (non invasive methods) thermography, UV, IR, Laser scanning, other.

Modeling and data bases in the conservation process (H-BIM, 3D modeling, photogrammetry)

Context analysis in designing process

Conservation guidelines, valorization and approaches.

Legal forms of heritage protection

Examination of building and conservatory documentation in designing process - the project completing

- teaching methods, including distance learning:

lectures, seminars, contact hours, electronic platforms, Distant Learning Platform

- form and criteria for semester completion, including retake tests, as well as conditions for admission to the examination:

Final exam

- course organisation and rules of participation in the course, with an indication whether a student's attendance is obligatory

Respecting general regulations at SUT

- description of other teaching modes:

### **ELECTIVE MODULES Me**

#### **MODULE A1:**

##### **Seminar**

Presentation of research subject, sightseeing, brainstorming in groups, discussion and working hypothesis

##### **Project**

Architectural modern design in historical site: respecting for the context and historical values.

- Process data collection and elaboration:
- Works in site: (,In situ') - observations, visual analysis, data collection: photos, sketches, records, mappings, etc.
- Archive and historical documentation
- Analysis: historical (site development), urban (functional zones, spatial connection system, urban morphology and composition, etc.) architectural (typology and structure of buildings, historical values, architectural composition, etc.)
- Final conclusions and values assessment
- Guidelines for the project elaboration: urban and architectural guideline, guideline for protection site

Architectural project elaboration:

- study and ideas,
- graphic presentation of conservation,
- functional and structural issues,
- site plan, floor plans, sections, facades, etc.,
- details, (in proper scales)
- 3D visualizations, aerial views from characteristic expositions, perspectives

Form and scope of the final submission:

- A-3 Booklet: All materials (images and architectural survey), texts: Analysis, Conclusions, Guidelines, Project description, References.
- Two graphic boards 100X70 cm : graphic presentation for analysis (summary), schemes, diagram, etc. for idea
- Site plan, floor plans, cross sections, elevations of the building, details, visualization, etc.
- CD - (all recorded separately) images - 300 dpi., tiff

#### **MODULE B1:**

##### **Seminar**

Sightseeing tour, study site visit, data collecting brainstorming in groups, working hypothesis

##### **Project**

Architectural project of buildings and sites conservation and adaptation to the new function.

- Process of elaboration and data collection:
- Works in site: (In situ) - observations, impressions, data collection: photos, sketches, records, mappings, etc.
- architectural research,
- survey
- Preparatory works:
- Analysis of archives and sources, historical research,
- stratigraphy elaboration
- urban survey and context analysis
- Final conclusions and values assessment
- Guidelines for the project elaboration: (Urban planning and architectural guideline, Guideline for Conservation and protection values)

Scope of the project

- Title of the project

- Brief description (aprox. 1000 characters) - including main idea, individual directives, objectives, methods, forms, functions, etc.
- Survey and stratigraphy
- Graphic representation for analysis (summary), schemes, diagram, etc. for idea
- Site plan 1:500
- Additional plans, views, elevations, cross-sections 1:500 / 1:250 (optionally)
- Details, (in proper scales)
- 3D visualizations, aerial views from characteristic expositions, perspectives

#### Final Submission

- 2 formats 100X70 cm (portrait) on Cappa boards
  - A-3 booklet of all materials (images and architectural survey)
  - Texts: Analysis, Conclusions, Guidelines, Project description, References.
  - CD - (all recorded separately) images - 300 dpi., tiff or jpg,
8. Description of the method for determining the final grade (rules and criteria for evaluation, as well as the final grade calculation method in the case of a course comprising more than one teaching mode, taking into account all teaching modes and all exam dates and credit tests including retake exams and tests):

#### **Moduł M1:**

Final exam is a final grade

#### **Elective Modules Me:**

Final grade is average of:

- Project Reviews (R1 25%, R2 25%), Final project submission and presentation (Fs 50%)
- classes attendance is mandatory

9. Method and procedure for making up for
- student's absence from the course,
  - differences in study programmes for students changing their field of study, changing university or resuming studies at the Silesian University of Technology,

#### Individually

10. Prerequisites and additional requirements, taking into account the course sequence:

classes one a week

11. Recommended sources and teaching aids:

„The Building Conservation Directory, BCD, Cathedral Communications”, 2015.  
 J. Purchla ed., „Cultural Heritage in 21th Century. Opportunities and Challenges”, MCK. Kraków, 2007.  
 B. Szmygin ed., „Heritage Value Assessment System”, ICOMOS Poland, 2015  
 B. Szmygin ed., „International Standards in Cultural Heritage Protection”, ICOMOS, 2015  
 B. Szmygin ed., „How to Assess Built Heritage”, ICOMOS, Florence, 2015  
 INTERNATIONAL CHARTER FOR THE CONSERVATION AND RESTORATION OF MONUMENTS AND SITES (THE VENICE CHARTER 1964)  
 Cullen G., 1961, Townscape, The Architectural Press, London.

#### Supplementary:

Małachowicz E., Ochrona dziedzictwa kulturowego, Wrocław 198  
 Małachowicz E., Konserwacja i rewaloryzacja architektury w zespołach i krajobrazie, Wrocław  
 Pawłowska K., 2001, Idea swojskości miasta, Politechnika Krakowska, Kraków  
 Rymaszewski B., Polska ochrona zabytków, Warszawa 2005  
 A. Tomaszewski, „Ku nowej filozofii dziedzictwa”, Międzynarodowe Centrum Kultury, Kraków, 2012  
 Wejchert K., 1974, Elementy kompozycji urbanistycznej, Arkady, Warszawa.  
 Żórawski J., 1962, O budowie formy architektonicznej, Arkady, Warszawa.  
 I. Borusiewicz W., Konserwacja zabytków budownictwa murowanego, Arkady, Warszawa 1985  
 Dettloff P., Odbudowa i restauracja zabytków architektury w Polsce w latach 1918 – 1939, Kraków 2006  
 Frycz J., Restauracja i konserwacja zabytków architektury w Polsce w l. 1795-1918, Warszawa 1975  
 Czasopisma:  
 Ochrona Zabytków, kwartalnik wyd. od 1948r. przez Min. Kultury, ODZ w Warszawie  
 Spotkania z zabytkami, kwartalnik (wcześniej miesięcznik) wyd. od 1976r. przez Min. Kultury i Tow. Opieki nad Zabytkami  
 Renowacje i Zabytki, kwartalnik wyd. od 2002r. przez A.I.P. „raport” Kraków.....