



ERASMUS + PROGRAMME

**CRACOW UNIVERSITY OF TECHNOLOGY
FACULTY OF ARCHITECTURE**

Warszawska str.24,
31-155 Cracow, Poland



**SPECIAL COURSES OFFER IN ENGLISH
FOR PART-TIME STUDIES
FACULTY OF ARCHITECTURE 2023/24**



SPECIAL COURSES OFFER IN ENGLISH - FACULTY OF ARCHITECTURE 2023/24

(f - fall semester, s - spring semester, f&s – fall and spring semester)

LECTURES & SEMINARS & LABORATORIES

1. History of Polish Architecture (f&s)
2. Urban Design Of City Centers – Theory (f&s)
3. Preservation of Monuments And Revalorization I (f)
4. Preservation of Monuments And Revalorization II – Archeotecture (s)
5. Building Construction Systems (individual research) A,B,C (f&s)
6. Building Surveying (individual research) A,B,C (f&s)
7. Building Structures (individual research) A,B,C (f&s)
8. Cad Techniques I – CAD Modeling (f&s)
9. Cad Techniques II – CAD BIM (f&s)
10. Eco City Concept (seminars) (s)

ARTISTIC SUBJECTS

11. Photography (f&s)

ARCHITECTURAL & URBAN DESIGN

12. Urban Design of City Centers (f)
13. Architecture and Planning in the Countryside (f&s)
14. Design for Conservation (s)

LANDSCAPE ARCHITECTURE DESIGN – INTEGRATED DESIGN STUDIOS

15. IDS 3 - Urban Public Space (street & square) (f)
16. IDS 4 - Revalorization of Historic Gardens (f&s)
17. IDS 5 - Public Park (f)
18. IDS 6 - Post – industrial areas (s)
19. IDS 7 - Composition in Open Landscape (f&s)



Courses offered to part-time International Students - FALL SEMESTER

nr/ code	course title	hours/ semester	ECTS credits	course level
LECTURES, SEMINARS AND LABORATORIES				
B.1-2	History of Urban Design	15 L	2	1 BA
B.1-3	History of Architecture	60	4 (E)	1 BA
B.1-8	Theory of Urban Design of Cities	15 L	2	3 BA
B.2-6	Urban Transport - Theory	15 L	2	3 BA
II B.1-4	History of Contemporary Urban Design	15 L	2	1 MA
II B.1-5	Theory of Historic Buildings Conservation and Restoration, Archeology	15 L	2 (E)	1 MA
II B.2-3	Ecology and Environment Protection	15 L	2	1 MA
II.C-2 electives	Art History	15 L	2	1 MA
	Aesthetics with Elements of Philosophy			
II.C-3 electives	Environmental Psychology	15 L	2	1 MA
	Urban Sociology			
ERA - F.1	History of Polish Architecture	30 S	4	-
ERA-F.2	Urban design of City Centers (seminar)	30 S	5	-
ERA-F.3	Preservation of Monuments and Revalorization I	30 Lab	4	-
ERA-F.4	Building Construction Systems /individual research/ (A,B,C)	30 Lab	2/ 3/ 4	-
ERA-F.5	Building Surveying /individual research/ (A,B,C)	30 Lab	2/ 3/ 4	-
ERA-F.6	Building Structures /individual research/ (A,B,C)	30 Lab	2/ 3/ 4	-
ERA-F.7	CAD Techniques I – CAD Modeling	30 CLab	4	-
ERA-F.8	CAD Techniques II – CAD BIM	30 CLab	4	-
ART TECHNIQUES				
ERA-F.10	Photography	30 Lab	2	-
B.3-3	Basic tools of architectural representation: Drawing, Painting, Modeling and Sculpture I	30 Lab	2	1 BA
B.3-6 I	Integrated tools of architectural representation I	30 Lab	2	2 BA
B.3-6 II	Workshop Techniques: Freehand Drawing III	30 Lab	2	3 BA
B.3-7	Workshop & Modeling Techniques: Sculpture I	30 Lab	2	3 BA
DESIGN STUDIOS				
ARCHITECTURAL & URBAN DESIGN				
A.1-1	Project 01A: Introduction to Design	120 P	8	1 BA
A.1-5	Project 03A: Design in a Low Density Single-Family Development Ensemble	105 P	8	2 BA
A.2-1	Project 03B: Interior Design (integrated with Project P03A)	45 P	5	2 BA
A.2-2 ERA -IC23	Project 04A: Rural Design and Specialist Design – Rural Areas Revitalization (Architecture & Planning in the Countryside)	90 P	8	2 BA
A.1-6	Project 07: Public Utility Buildings Design I	120 P	8	3 BA
A.1-3	Project 08: Design of a Multi-family Residential Building in Urban Development	120 P	8	3 BA
ERA-II.7	Urban Design of City Centers (advanced design)	105 P	8	4 BA
II.A.1-3	Project 3A: Design of a Residential Buildings Ensemble in Urban Development	105 P	9	1 MA
II.A.1-5 II.A.2-3	Project 4A: Design in Cultural Heritage Areas Project 4B: Conservation Design and Archeology	105 P (60+45)	8 (5+3)	1 MA
LANDSCAPE ARCHITECTURE DESIGN				
IDS3/5	Urban Public Space (street & square) / Public Park	105 P	11	2/3 BA
IDS8	Composition in Open Landscape	105 P	11	4 BA



Courses offered to part-time International Students - SPRING SEMESTER

nr code	course title	hours/sem.	ECTS credits	course level
LECTURES, SEMINARS AND LABORATORIES				
B.1-4	Contemporary Architecture	30 L	3 (E)	1 BA
B.1-5	Landscape Architecture I	15 L	2	1 BA
B.1-12	Monument & Heritage Protection	15 L/15 S	3	4 BA
B.1-13	Cultural Knowledge	15 L/15 S	3	4 BA
B.1-14	Ergonomics and Work Safety in Architecture	15 L	2	4 BA
B.1-15	Law, Economics, Ethics and Management in the Development Process	30 L/15 S	4	4 BA
B.1-16	Environment Protection, Ecology in Urban and Rural Planning	30 L/15 S	4	4 BA
C-2 electives	History of Art	15 L	2	4 BA
	Aesthetic with Elements of Philosophy			
C-3 electives	Basics of Sociology	15 L	2	4 BA
	Basics of Environmental Psychology			
II.B.1-3	Landscape Architecture II	15 L	2	1 MA
II.B.2-2	Urban Engineering	15 L	2	1 MA
II.B.3-1	Heritage Protection– Identification	15 L / 45 S	4	1 MA
II.B.1-6	Ethics of the Architectural Profession, Law in the Construction Process	15 L	2	2 MA
II B.1-7	Cultural Studies	15 L	2	2 MA
II B.1-8a electives	Theory of Regional Planning	15 L	2	2 MA
	Theory of Historic Buildings Conservation			
II B.1-8b electives	City Design	15 L/15 S	4	2 MA
	Negotiations and Practical Aspects of Practicing the Architectural Profession			
	History of Architecture			
ERA-S.1	History of Polish Architecture	30 S	4	-
ERA-S.2	Urban Design of City Centers (seminars)	30 S	5	-
ERA-S.3	Preservation of Monuments and Revalorization II - Archeotecture	30 Lab	4	-
ERA-S.4	Building Construction Systems /individual research/ (A,B,C)	30 Lab	2 / 3 /4	-
ERA-S.5	Building Surveying /individual research/ (A,B,C)	30 Lab	2 / 3 / 4	-
ERA-S.6	Building Structures /individual research/ (A,B,C)	30 Lab	2 / 3 /4	-
ERA-S.7	CAD Techniques I – CAD Modeling	30 CLab	4	-
ERA-S.8	CAD Techniques II – CAD BIM	30 CLab	4	-
ERA-S.9	Eco-City Concept	60 P	6	-
ART TECHNIQUES				
ERA-S.10	Photography	30 Lab	2	-
B.3-3	Basic tools of architectural presentation: Drawing, Painting, Modeling and Sculpture II	30 Lab	2	1 BA
B.3-8 I	Integrated tools of architectural representation I	30 Lab	2	2 BA
B.3-8 II	Painting in Design Process	30 Lab	2	3 BA
B.3-7	Workshop & Modeling Techniques: Sculpture II	30 Lab	2	3 BA
DESIGN STUDIOS				
ARCHITECTURAL & URBAN DESIGN:				
A.1-3	Project 02A: Preliminary Architectural and Urban Design	120 P	8	1 BA
A.1-7	Project 05A: Design in a High Density Single-Family Development Ensemble	105 P	8	2 BA
A.1-9	Project 06: Services Buildings Design	105 P	8	2 BA
A.1-8	Project 09: Urban Design*	120 P	8	3 BA
A.1-6	Project 10: Public Utility Buildings Design II*	120 P	8	3 BA
A.2-3	Revitalization of Cities - Specialist Design &	15 P	2	3 BA
B.1-10	Revitalization of Urban Areas (theory)	15 L	2	
ERA - IC23	Architecture & Planning in the Countryside - Rural Areas Revitalization	90 P	8	4 BA
ERA - IIA	Design for Conservation	105 P	8	1 MA
II.A.1-1	Project 1A: Public Utility Buildings Design	105 P	9	1 MA
II.A.2-1	Project 2A: Spatial and Regional Planning and Urban Engineering	90 P	8	1 MA
II.B.1-2	Theory of Spatial Planning	15 L	2	
II.E-1	Diploma Design – Final Project	10 P	14	2 MA
LANDSCAPE ARCHITECTURE DESIGN				
IDS4	Revalorization of Historic Gardens	105 P	11	2 BA
IDS6	Post – industrial areas	105 P	11	3 BA
IDS8	Composition in Open Landscape	105 P	11	1 MA



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LECTURES, SEMINARS AND LABORATORIES

**COURSE TITLE:****HISTORY OF POLISH ARCHITECTURE (LECTURES&SEMINARS)****Organizational unit:** A1- Department of History of Architecture and Monument Preservation**Course code:** ERA-F.1 / ERA-S.1**Number of contact hours:** 30**Course duration:** 1 semester (Fall or Spring Semester)**ECTS credits:** 4**Course description:**

This course investigates the theory and practice of Polish architecture from the end of 9th c. till the end of 20th c. based on examples located in Cracow. The students will examine general and local factors of development of architecture. It is intended to provide a understanding of general tendencies and local diversities in history of architecture. By visiting sites in Cracow the students will meet variety of historic architecture in Poland. The field case study method is mostly used for this examination.

Literature:

- Miłobędzki, Adam, The Architecture of Poland, MCK Cracow 1994;
- Ostrowski, Jan, Cracow, Cracow 1982;
- Zachwatowicz, Jan, Polish Architecture, Warsaw 1967.

Course type: Field seminars and lectures**Assessment method:** Attendance and the final exam**Prerequisites:** none**Primary target group:** 3rd, 4th, and 5th year students in Architecture**Lecturer:** Jacek Czubiński, PhD Arch. Prof. CUT**Contact person:** Jacek Czubiński, PhD Arch., Prof. CUT

phone #: +48 12 628-24-16; +48 503 035 289;

e-mail: jacek.czubinski@pk.edu.pl, jacek.czubinski@wp.pl

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

**COURSE TITLE:****LECTURES: URBAN DESIGN OF CITY CENTRES (seminars)****Organizational unit:** A-9 - Department of Urbanism and City Structures Architecture**Course code:** ERA-F.2 /ERA-S.2**Number of contact hours:** 30**Course duration:** 1 semester (Fall and Spring)**ECTS credits:** 5**Course description:**

Lectures are focused on problems of contemporary changes of city areas and multi-functional centers design. Discussing this attention was drawn to the issue of communication and interaction as seen through sociological and psychological conditions but in reference to and in association with public space.

The lecture topics include:

- Spatial surroundings and human psyche - classification of effect conditions;
- The way we play' on public space as a stage of everyday life theatre - the role theory and the play theory by Irving Goffman;
- Form and meaning in architectural and urban composition - Juliusz Żórawski and Kazimierz Wejchert's theories;
- Sense of identity and its importance for cities and regions competitions.

Literature: Basic literature on urban design and urban renewal**Course type:** Lectures / seminars**Assessment method:**

Attendance and evaluation of the final submissions (critical essay or 15 min. PowerPoint presentation)

Primary target group: 3rd & 4th year students in Architecture**Lecturer:** Anna Franta, Assoc. Prof. DSc PhD Arch**Contact person:** Anna Franta,
phone #: +48 12 628-24-70; e-mail: studio_ut@pk.edu.pl**Deadline for application:** beginning of the Fall and Spring semester (according to the schedule)

**COURSE TITLE:****PRESERVATION OF MONUMENTS AND REVALORIZATION I****Organizational unit:** A-1 Department of History of Architecture and Monument Preservation**Course code:** ERA-F.3**Number of contact hours:** 15 (seminars) + 15 (individual tutoring)**Course duration:** 1 semester (Fall)**ECTS credits:** 4

Course description: Conveying the essential areas of knowledge connected with the problems of monument preservation: the development of European theory and practice; regional particularities of the Polish lands; acquaintance with the methodologies and principles of conservation design and the technologies of preservation work.

Literature: Readings on theory of monuments preservation methodology and technical aspects.

Course type: Seminars + individual tutoring

Assessment method: Attendance and the evaluation of the final submission

Prerequisites: none

Primary target group: 3rd, 4th, and 5th year students in Architecture

Lecturer: Andrzej Kadłuczka, Prof. DSc PhD Arch.

Tutor: Anna Bojęś - Białasik, Prof. PhD Arch.

Contact person:

Anna Bojęś - Białasik, phone #: +48 12 628-24-08; +48 600 312 236;

e-mail: abojes-bialasik@pk.edu.pl, bialasika@wp.pl

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

**COURSE TITLE:****PRESERVATION OF MONUMENTS AND REVALORIZATION II - ARCHEOTECTURE****Institute:** A1 - Institute of History of Architecture and Monument Preservation**Course code:** ERA-S.3**Course duration:** 1 semester (Spring Semester)**ECTS credits:** 4**Course description:**

The first part of the course is to develop, based on the provided primers and test results, a three-dimensional computer model, showing the reconstructed body of the building, in a given historical period, which is based on architectural relics discovered. The basis for the architectural design of conservation as a key to protect the monument of architecture is to search for the most appropriate features for contemporary architectural form generated as "archeotecture". It is therefore the place for quite contemporary architectural creation, whose task will be to create a dialogue between past and present. This is the second part of the task in the proposed course. The result of the proposed activities to be performed by the student reconstruct a virtual model of the object, stored in the form of a relic of architectural and conceptual design for the exposure, using both the object itself and its nearest surroundings. The project will include a basic floor plans, sections and elevations at a scale of 1:100 and print selected shots from the reconstruction of the virtual block. 1-2 computer visualization of the proposed solution will be also required.

Literature: Readings on theory of monuments preservation methodology and technical aspects.

Course type: Lectures, Seminars + individual tutoring

Assessment method: Attendance and the evaluation of the final submission

Prerequisites: -

Primary target group: 3rd, 4th, and 5th year students in Architecture

Lecturer: Klaudia Stala, Assoc. Prof. DSc PhD Arch.,

Tutors: Klaudia Stala, Assoc. Prof. DSc PhD Arch., Jolanta Sroczyńska, Assoc. Prof. DSc, PhD Arch.

Contact person: Klaudia Stala,
e-mail: klaudia.stala@pk.edu.pl

Deadline for application: beginning of the Spring semester (according to the schedule)



COURSE TITLE:

BUILDING CONSTRUCTION SYSTEMS A, B, C (individual research)

Organizational unit: A-4 - Department of Architectural and Building Design

Course code: ERA-F.4/ ERA-S.4

Number of contact hours: 30

Course duration: 1 semester (available in Fall and Spring Semester)

ECTS credits: A – 2 ECTS, B – 3 ECTS, C – 4 ECTS (it is possible to combine courses to achieve a higher number of credits e.g. A+B = 5 ECTS)

Course description: The task of this course is to help students to elaborate the alternatives of technical solutions of the most important details of their design work. Basic form of drawings – from freehand conceptual sketches to technical drawings.

Literature: Basic literature on technical solutions

Course type: Individual design work under supervision and tutorial

Assessment method: Evaluation of the final submission

Prerequisites: Architectural Studio

Primary target group: 3rd and 4th year students in Architecture

Lecturer: Waław Celadyn, Prof. DSc PhD Arch.

Tutor: Robert Marcinkowski, PhD Arch.

Contact person:

Robert Marcinkowski, phone #: +48 12 628-24-59;

e-mail: rmarcink@pk.edu.pl, rob500@gazeta.pl

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



COURSE TITLE:

BUILDING SURVEYING A,B,C (individual research)

Organizational unit: A-4 - Department of Architectural and Building Design

Course code: ERA-F.5/ ERA-S.5

Number of contact hours: 30

Course duration: 1 semester (available in Fall and Spring Semester)

ECTS credits: A – 2 ECTS, B – 3 ECTS, C – 4 ECTS (it is possible to combine courses to achieve a higher number of credits e.g. A+B = 5 ECTS)

Course description: The task of this course is to help students to elaborate the alternatives of technical solutions of the most important details of their design work. Basic form of drawings – from freehand conceptual sketches to technical drawings.

Literature: Basic literature on technical solutions

Course type: Individual design work under supervision and tutorial

Assessment method: Evaluation of the final submission

Prerequisites: Architectural Studio

Primary target group: 3rd and 4th year students in Architecture

Lecturer: Waław Celadyn, Prof. DSc PhD Arch.

Tutor: Łukasz Wesółowski, PhD Arch.

Contact persons:

Łukasz Wesółowski, e-mail: lukaszw@pk.edu.pl

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



COURSE TITLE:

BUILDING STRUCTURES A,B,C (individual research)

Organizational unit: A4 - Institute of Building Design, Division of Building Techniques and Constructions

Course code: ERA-F.6/ ERA-S.6

Number of contact hours: 30

Course duration: 1 semester (available in Fall and Spring Semester)

ECTS credits: A – 2 ECTS, B – 3 ECTS, C – 4 ECTS (it is possible to combine courses to achieve a higher number of credits e.g. A+B = 5 ECTS)

Course description:

The main goal of this course is to help students during their design work and connected with proper solutions combining together building function and structure. Student is obliged to select one topic among three main groups of tasks or she/he has right to propose another individual topic of the research, which is strictly within the basic teaching problems of this course. Students can work individually or in groups of maximum 3 persons. The first of the main topics refers to the comprehensive research of structural system of a chosen building including general aspects of stability, problems of structural design of component parts together with issues of assembly and maintenance of the whole building caused by application of the applied support system. The second one is connected with structural design of selected members of the bearing building structure together with the basic static calculations, structural drawings etc. The third kind of the main topics is to present the general and basic problems of various forms and types of structural systems, which may be applied as the support structures for the same type of objects, of the equal geometrical sizes and the same functional purposes. For this topic students have to prepare suitable static calculations and appropriate drawings. For all types of the main topics the final presentation done in Power Point is obligatory.

Literature:

Basic literature on technical solutions in form of technical manuals, building codes, national and international journals in appropriate fields of engineering and architectonic issues.

Course type: Individual design work under supervision and tutorial

Assessment method: Evaluation of the final submission

Prerequisites: Architectural Studio

Primary target group: 3rd and 4th year students in Architecture

Lecturer: Waław Celadyn, Prof. DSc PhD Arch.

Tutor: Łukasz Wesółowski, PhD Arch.

Contact persons:

Łukasz Wesółowski, PhD Arch. e-mail: lukaszw@pk.edu.pl

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



COURSE TITLE:

CAD TECHNIQUES 01 – CAD MODELING

Organizational unit: A-10 - Department of Descriptive Geometry and Digital Technologies

Course code: ERA-F.7/ ERA-S.7

Number of contact hours: 30

Course duration: 1 or 2 semesters (Fall and/or Spring Semester)

ECTS credits: 4

Course description: Application of Computer Aided Design methods and techniques into practice. Includes techniques for creating 2D vector (AutoCAD) and raster (Photoshop, GIMP) graphics and 3D drawings which are directly related to the real-world architectural structures.

New concepts of 3D architectural design and modeling with AutoCAD, Mudbox, Blender, 3dsMax applications. Introduction of modern tools (Drawing Board, 3D printer) and methods (Solution for Teamwork, "working in the cloud") into design process: starting from a 3D modeling, through visualization, animation (AutoCAD, 3dsMax Design, Mudbox) into technical layouts, cross sections and dimensioning creation (blueprints). Advanced level of the course is offered in the second semester.

Literature: Basic literature on Graphics, CAD, Geometry and Technical Drawing

Course type: Computer laboratory: individual design work

Assessment method: Evaluation of all design assignments

Prerequisites: Basic knowledge on the architectural design, basic ICT skills

Primary target group:

All level students in Architecture, Landscape Architecture, Civil Engineering

Lecturer: Krystyna Romaniak, Assoc. Prof. DSc, PhD;

Tutor: Rafał Zieliński, PhD. Arch.

Contact person:

Rafał Zieliński, e-mail: rzielinski@pk.edu.pl

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



COURSE TITLE:

CAD TECHNIQUES 02 – CAD BIM

Organizational unit: A-10 - Department of Descriptive Geometry and Digital Technologies

Course code: ERA-F.8/ ERA-S.8

Number of contact hours: 30

Course duration: 1 or 2 semesters (Fall and/or Spring Semester)

ECTS credits: 4

Course description: Application of Computer Aided Design methods and techniques into practice. Includes BIM (Building Information Modeling) technology for creating 3D objects with AutoCAD Architecture, Revit and ArchiCAD applications. Introduction of modern tools (Drawing Board, 3D printer) and methods (BIM, BEM – Building Energy Model, Graphisoft Virtual Building Solution for Teamwork, “working in the cloud”) into design process: starting from a 3D modeling, through visualization (3dsMax Design, Artlantis), animation (ArchiCAD, 3dsMax Design, Artlantis) and Virtual Reality (BIMX) into technical layouts, cross sections and dimensioning creation (Technical Documentation). Working with Graphisoft EcoDesigner - a new technology for Sustainable Design - enables quick and efficient evaluation of alternative solutions based on energy consumption, carbon footprint and monthly energy balance and thereby optimize the design process. Advanced level of the course is offered in the second semester.

Literature: Basic literature on Graphics, CAD, Geometry and Technical Drawing

Course type: Computer laboratory: individual design work

Assessment method: Evaluation of all design assignments

Prerequisites: Basic knowledge on the architectural design, basic ICT skills

Primary target group:

All level students in Architecture, Landscape Architecture, Civil Engineering

Lecturer: Krystyna Romaniak, Assoc. Prof., DSc, PhD

Tutor: Rafał Zieliński, PhD. Arch.

Contact person:

Rafał Zieliński, e-mail: rzielinski@pk.edu.pl, verde.arch@gmail.com



COURSE TITLE:

ECO – CITY CONCEPT

Organizational unit: A-5 - Department of Spatial Planning, Urban and Rural Design

Course code: ERA-S.9

Number of contact hours: 60

Course duration: 1 semester (Spring)

ECTS credits: 6

Course description:

Preparation of urban development projects taking into consideration actual and future concepts of eco-city becomes the need in the process of teaching architecture and urban design & planning.

The concept of eco-city design project deals with the creation of a new layout of ecological town in the surroundings of Cracow or of the transformation of definite fragment of the city as an estate or district .

Applying of urban and latest technical solutions in the range of sustainable development of urbanized areas including: development of degraded or neglected terrains (biological active and build up), energy supply from renewable sources, as well as limiting environmental various pollution is going to be the basis of spatial concepts.

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

Course type: Individual or team work (groups of 2-3 students) under supervision and tutorial (continuation of Environmental Protection and Ecology seminar, but open for students not attending the previous course)

Assessment method: Concept of ecological urban design project plus description of proposed idea and specific solutions with perspective sketches

Primary target group: 5th year students in Architecture

Lecturer: Rafał Blazy, Prof. PhD DSc Arch.

Tutor: Piotr Langer, PhD. Arch.

Contact person:

Piotr Langer, e-mail: A-5@pk.edu.pl

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



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ARTISTIC SUBJECTS



COURSE TITLE:

PHOTOGRAPHY

Organizational unit: A-1 - Department of History of Architecture and Monument Preservation

Course code: ERA-F.10/ ERA-S.10

Number of contact hours: 30

Course duration: 1 semester (available in Fall and Spring semesters)

ECTS credits: 2

Course description:

Practical introduction to photography as well as to digital image processing techniques. Practical application of photography in architectural work. Developing skills in using archive photography as an iconographic element.

Literature:

William J. Mitchell: *The Reconfigured Eye. The digital truth in the post-photographic era*

Course type: Individual photographic work under supervision and tutorial

Assessment method: Attendance and evaluation of submitted work

Primary target group: All level students of the Architecture and Landscape Architecture

Lecturer: Zbigniew Wikłacz, PhD Arch. Prof. CUT

Contact person:

Zbigniew Wikłacz, phone #: +48 12 628-24-16

e-mail: wiklacz@pk.edu.pl, wiklacz@gmail.com

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



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PROJECTS/ DESIGN

ARCHITECTURAL & URBAN DESIGN



COURSE TITLE:

DESIGN FOR CONSERVATION

Organizational unit: A1 - Institute of History of Architecture and Monument Preservation

Course code: ERA - IIA

Number of contact hours: 105

Course duration: 1 semester (Fall or Spring)

ECTS credits: 8

Course description: The course aims at mastering the skills of: gathering, preparing and using historical sources; analyzing the historic context, architectural and cultural; designing within the historic fabric of the given locality; defining the limits of interference with the historic, often listed, structure; converting and modernizing historic structures; design application of preservation and conservation theories, techniques and technologies.

Final requirements: - analyses and surveys of buildings and sites; - architectural drawings: plans, sections, elevations in the scales; 1: 100 and 1: 50; models

Literature: Readings depend on the design assignment and are individually advised

Course type: Individual design work under supervision and tutorial ; site seeing, seminars, reviews and juries

Assessment method: Review evaluation; evaluation of the final submission (process, progress, personal creativity & individual approach, graphic and oral presentation)

Prerequisites: Architectural and Urban Design Studio

Primary target group: 3rd, 4th, and 5th year students in Architecture

Lecturer: Andrzej Kadłuczka, Prof., DSc, PhD Arch.

Tutors:

Joanna Białkiewicz PhD Arch., Marta A. Urbańska, PhD Arch., Zbigniew Wikłacz, PhD Arch.

Contact person:

Marta A. Urbańska, email: marta.urbanska@pk.edu.pl, martaannaurbanska@go2.pl

Deadline for application: beginning of the Fall or Spring semester (according to the schedule)

Remarks: Students may take Preservation of Monuments & Revalorization seminars (4 ECTS credits) accompanying the Design Studio



COURSE TITLE:

ARCHITECTURE AND PLANNING IN THE COUNTRYSIDE

Organizational unit: A5 - Institute of City and Regional Design, Division of Rural Architecture and Planning

Course code: ERA- IC23

Number of contact hours: 90

Course duration: 1 semester (Fall or Spring)

ECTS credits: 8

Course description:

A growing interest in the countryside environment as a place to live, as well as a place of escape from urban life challenges the architects. That is a reason we try to encourage students to seek new architectural and planning ideas for future development of the villages as an alternative to urban living.

For the semester work the students may choose the planning project or the architectural project or both of them (the detailed subject and the particular scope of the project are always determined with the participation of the student).

The planning project is required as a concept of development of the chosen village in Poland. The architectural project may be chosen from the following subjects: a countryside housing for farmer and non-farmer families; an ecological farm complex; a social-cultural centre for a small local community (an idea of "contemporary agora") etc.

Literature: Basic literature on countryside planning and architecture

Course type: Individual design work under supervision and tutorial

Assessment method: Evaluation of the final submission (process, progress, personal creativity & individual approach, graphic and written presentation)

Prerequisites: Architectural and Urban Design Studio (e.g. Urban Composition, Residential Neighborhoods, Residential Buildings Design)

Primary target group: 2nd, 3rd, 4th and 5th year students of Architecture

Tutors: Justyna Tarajko-Kowalska, PhD. Arch., Ingeborga Cygankiewicz PhD. Arch., Dominika Moskal, Msc. Arch.

Contact person:

Justyna Tarajko-Kowalska, PhD. Arch., phone #: +48 503 671 682,
email: jtarajko@pk.edu.pl. justarajko@tlen.pl

Deadline for application: beginning of the Fall or Spring semester (according to the schedule)

**COURSE TITLE:
URBAN DESIGN OF CITY CENTRES****Organizational unit:** A5 Institute of City and Regional Design**Course code:** ERA - II7**Number of contact hours:** 105**Course duration:** 1 semester (Fall)**ECTS credits:** 8

Course description: Students are expected to outline a concept of a future development for selected urban area presenting a clear vision in which new masses creating urban space will be harmoniously integrated with existing values of urban structure. The concept should be based on the analysis of the following elements / factors:

- The role of selected area in the whole town and spatial values of the designated area;
- Functional and spatial / visual relations of the area selected for development with surrounding urban fabric.

The following tasks are particularly important as design criteria for assessing the student's project:

- Creating new aesthetic values such as attractive public spaces and the composition of masses enriching the skyline of the town;
- Ensuring appropriate functional relations respectively to the programmed uses of space;
- Defining the character of newly designed architecture so that it could be regarded as a creative interpretation of urban context.

Literature: Basic literature on the subject of urban design**Course type:** Individual design work under supervision and tutorial**Assessment method:** Evaluation of the final submission (process, progress, personal creativity & individual approach, graphic and written presentation)**Prerequisites:** Urban Design Studio (e.g. Urban Composition, Residential Neighborhoods, Residential Buildings)**Primary target group:** 4th and 5th year students in Architecture**Lecturer:** Rafał Blazy, Prof. PhD DSc Arch.**Contact person:** Olga Kania, PhD Arch.

e-mail: A-5 @pk.edu.pl

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



ERASMUS + PROGRAMME
CRACOW UNIVERSITY OF TECHNOLOGY
FACULTY OF ARCHITECTURE

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LANDSCAPE ARCHITECTURE DESIGN – INTEGRATED DESIGN STUDIOS

**COURSE TITLE:****URBAN PUBLIC SPACE – STREET& SQUARE (INTEGRATED DESIGN STUDIO 3)****Organizational unit:** A8 Institute of Landscape Architecture**Course code:** IDS-3**Number of contact hours:** 105**Course duration:** 1 semester (Fall)**ECTS credits:** 11**Course description**

The topic of design is an urban enclosure: a square, city street in their broader context respecting composition and visual relations with other neighboring enclosures:

- General concept of square or street composition within their context (scale 1:500), inventory of the present state, planting plan and management, preliminary design - plans and axonometric view
- Underground passage with green lid construction (scale 1:500 and 1:200, plans and sections, with details)
- Square design (scale 1:200), paving and plastering, street furniture (scale 1:20 or 1:10), specification of plants
- Detail design (optional) - bus shelter, kiosk, statue, fountain (scale 1:50 or 1:20) plans, sections, views and perspective drawings

Literature

- Katalog roślin II - drzewa, krzewy, byliny polecane przez Związek Szkółkarzy Polskich, Agencja Promocji Zieleni, Warszawa 2003
- Time-saver standards for landscape architecture: design and construction, coedit. Charles W. Harris, New York 1988
- Gordon Cullen, The Concise Townscape, London 1977

Course type: Design Studio**Assesment method :** project completion**Primary target group**

Landscape Architecture course – 3rd semester of graduate studies

Tutor: Anna Staniewska, PhD DSc. Arch.**Contact person:** Anna Staniewska, PhD DSc. Arch,
phone #: +48 12 628 24 91;e-mail: astaniewska@pk.edu.pl**Deadline for application:** beginning of the Fall semester (according to the schedule)



COURSE TITLE:
REVALORIZATION OF HISTORIC GARDENS (INTEGRATED DESIGN STUDIO 4)
Organizational unit: A8 Institute of Landscape Architecture

Course code: IDS-4
Number of contact hours: 105
Course duration: 1 semester (Spring)
ECTS credits: 11

Course description

The topic of design is an monastic complex.

During the semester course students prepare 5 sequential part of designs:

- Analysis of accessibility to monastic enclosures and their spatial context.
- Historic studies - phases of spatial development.
- Function of pilgrims shrine.
- Revalorisation of (*viridarium*) *hortus conclusus* (the Middle Ages), monastic garden (the Renaissance), "Paradise Courtyard" (the baroque)
- Garden architecture

Literature

Basic literature on garden design and revalorization:

- Aleksander Böhm, Agata Zachariasz, *Architektura krajobrazu i sztuka ogrodowa : ilustrowany słownik angielsko-polski, Landscape architecture and art of gardening : the illustrated English-Polish dictionary*. Vol. 1. a-d , Warszawa 1997, Vol. 2. e-j, Warszawa 2000, Vol 3. k-q Warszawa 2005
- Magazines: German - „Garden und Landschaft”, English: „Landscape Architecture”, Polish: „Ogrody, ogródki, zieleńce”

Course type: design studio

Assesment method: project completion

Primary target group: Landscape Architecture course – 4th semester of graduate studies

Tutors: Katarzyna Łakomy DSc., PhD. Arch., Katarzyna Hodor PhD. Arch.

Contact persons

Katarzyna Łakomy, email: klakomy@pk.edu.pl

Katarzyna Hodor, email: katarzyna.hodor@pk.edu.pl

Deadline for application: beginning of the Spring semester (according to the schedule)

**COURSE TITLE:****PUBLIC PARK (INTEGRATED DESIGN STUDIO 5)****Organizational unit:** A8 Institute of Landscape Architecture**Course code:** IDS-5**Number of contact hours:** 105**Course duration:** 1 semester (Fall)**ECTS credits:** 11**Course description:**

The course exposes students to real-world situation of designing a public park in Kraków or direct neighborhood where creative activity and basic independent landscape research is expected. The site is each year different for design is based on the results of social research (public participation workshop is part of the course).

The project has to take into account the needs of various user groups of a land area. Designed park space should be created as a meaningful public space universally accessible in all terms and engaging visitors of diverse ages, backgrounds and interests.

Moreover, the course offers an opportunity to develop an understanding of the sensory, visual and functional importance of plants in the landscape. Basic information on visualization and design of planted landscapes is given together with the advice on development of draft planting plans.

The project idea should be expressed through graphic media and the use of drawing techniques for visual representation, including plans, sections, and axonometric drawings with necessary technical details where appropriate. Both free-hand drawing and computerized drafting and drawing are encouraged.

Scope of the project: Landscape architectural project - plan in 1:500 (1:1000), sections, projects of objects (pavilions, bridges etc. – scale 1:100 or 1:50), small architecture, landmarks, planting concept, a brief summary about the project

Literature:

- Astrid Zimmermann, 'Constructing Landscape', Birkhauser 2011, <http://issuu.com/birkhauser.ch/docs/constructing-landscape>
- Bradley Cantrell, Wes Michaels, 'Digital Drawing for Landscape Architecture', Wiley 2010
- Frederick Steiner, 'The Living Landscape', IslandPress 2008
- John Benson, 'Landscape and Sustainability', 2001

Course type: Individual design work under supervision and tutorial, participation in participative planning workshop, an on-site visit, short introductory seminars

Assessment method: Participation in the course and design – reviews; submission and evaluation of the completed project.

Prerequisites: Basic knowledge of the (landscape) architectural design, basic drawing skills

Primary target group: 3rd year students in Architecture and Landscape architecture

Tutor: Anna Staniewska, PhD Arch.

Contact person: Anna Staniewska, PhD Arch,
phone #: +48 12 628 24 91; e-mail: astaniewska@pk.edu.pl

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

Remarks: The design tasks are preceded by social research and are different in each year



COURSE TITLE:

POST- INDUSTRIAL AREAS (INTEGRATED DESIGN STUDIO 6)

Organizational unit: A8 Institute of Landscape Architecture

Course code: IDS-6

Number of contact hours: 105

Course duration: 1 semester (Spring)

ECTS credits: 11

Course description

- Study of landscape enclosures for the chosen post-industrial area
- Preliminary design of master plan for post-industrial park
- A concept design of part of park
- A birds-eye view perspective of master plan conception
- Presentation techniques of design concept

Literature

- Time-saver standards for landscape architecture: design and construction, coedit. Charles W. Harris, New York 1988
- Magazines – in English - Topos, in Polish – Murator

Course type: Design Studio

Assessment method: project completion

Primary target group: Landscape Architecture course – 6th semester of graduate studies

Lecturer: Zbigniew Myczkowski, Prof. D. Sc., Ph. D. Arch., Krzysztof Wielgus Ph.D. Arch

Contact person:

Zbigniew Myczkowski, Prof. D. Sc., Ph. D. Arch., email: zbyszekm@pk.edu.pl

Deadline for application: beginning of the Spring semester (according to the schedule)



COURSE TITLE:

COMPOSITION IN OPEN LANDSCAPE (INTEGRATED DESIGN STUDIO 7)

Organizational unit: A8 Institute of Landscape Architecture, Chair of Landscape Architecture Design

Course code: IDS-7

Number of contact hours: 105

Course duration: 1 semester (Fall or Spring)

ECTS credits: 11

Course description: The project is carried out in the suburbs or rural areas with high landscape and / or cultural and natural values. Design area covers few to several hundred hectares. Throughout the course, students perform digital terrain model on which the landscape analysis is conducted utilizing ray-tracing method. On the maps of the area, the students develop an analysis of the historical and natural resource. Based on the self-prepared analyzes, the student prepares guidelines for the project. The course project includes the development of the master plan of project area on a scale of 1:1000 - 1:5000, depending on the subject and a detailed project on a scale of 1:500 or 1:1000. For each scale visualizations are made from human level and birds' eye view. Theme of the project envisages development of the area for recreational / sports utilities. Aspects of protection of existing cultural, landscape and natural values of the area should be taken into account the project.

Literature: Depending on the design task

Course type: Individual design work under supervision and tutorial

Assessment method: Evaluation of the final submission as well as process, progress, personal creativity & individual approach, graphic and oral presentation; final presentation: 4 charts 100 x 70 cm + freehand drawing and 10 min oral presentation

Prerequisites: Skilled operation of CAD-systems (focus on Autodesk Civil 3D), Sketchup, Photoshop, freehand drawing; landscape understanding; basic knowledge of plants and plant communities

Primary target group:

3rd, 4th, and 5th year students in Landscape Architecture and Architecture

Tutor: Przemysław Kowalski, PhD

Contact person: Przemysław Kowalski, PhD,
phone #: +48 12 628-25-65; e-mail: pkowalski@pk.edu.pl

Deadline for application: beginning of the Fall or Spring semester (according to the schedule)