

## **STUDY PROGRAM SPRING SEMESTER 2018/2019**

### **I. Compulsory Teaching Module related to Interior Design offered to Erasmus students in the spring semester of the academic year 2018/2019:**

All these three subjects indicated below are obligatory to all Erasmus group of students.

#### **The obligatory courses:**

**PROJECT  
INTERIOR DESIGN, 48 H, 6 ECTS  
Arch. Agnieszka Chudzińska**

**Wednesday 12.15-14 Room 124 and Friday 12.15-14.00 Room 124**

Cognition of issues regarding composition of space and interior design. Analysis of spatial correlation within the existing and imaginary interiors, empty to solid relation, form, color, natural and artificial lighting, material, texture. Design idea and its execution in reality. Exercises concerning how to clearly formulate and verbalize design guidelines. Means serving the synthetic presentation of the idea.

Main task to be completed during the semester is the project initially called: THE BOX – each student will design the space (place? pavilion? object? building?) expressing the idea (essence?) extracted from the cocktail of attributes specific for native land or region. Project embraces architectural shape and interior composition of the designed object and is a development of the synthetic idea formulated in the first phase of the course.

Scope of the project embraces graphic (plans, sections, views) and model presentation including location in a context of Warsaw city structure.

**SEMINAR**

**INTERIORS ELEMENTS OF COMPOSITION IN URBAN AND ARCHITECTURAL**

**INTERIORS,**

**30 H, 2 ECTS**

**Arch. Katarzyna Jasińska**

**Tuesday 10.00-12.00 Room 212**

Seminar is organised as a series of short workshops referring to analysis of spaces of certain characteristics. Seminar includes 7-12 design exercises, completed during classes, prepared in traditional technique (pencil, ink, marker-pen, coloured pencil, water-colour, collage, mixed techniques). Cycle of lessons begins with off memory and conceptual sketches, than students deal with abstract exercises, and space perception drawings.

Seminar embraces exercises related to the content of Urban and Architectural Design Studios. Tasks refer to main spheres of space shaping; students are encouraged to apply knowledge deepened through own research (literature, observations, inspirations derived from other spheres of art, philosophy).

Each exercise is driven in closure form during one- or two-hour classes for a group of students. After introducing a problem, we discuss methods to reach the design answer along with criteria of evaluation. On paper sheet (sheets) sized A4 each student draws illustration answering the certain question. It is possible to put short text comments, but basic medium of representation has to remain drawing (plane, spatial, perceptive, sketch, schema). Range of the composition usually embraces plan (in definite scale, or catching on proportions of objects), perspective or axonometric view - often with regard to human scale, characteristic sections - if needed, schemes. During the exercise teachers share with students suggestions and opinions concerning particular ideas and drawings.

Each exercise is closed by review of compositions and discussion.

**SEMINAR**

**POSSIBILITIES OF REDEVELOPMENT FOR THE CITY QUARTER,**

**45 H, 4 ECTS**

**Prof. Arch. Elżbieta D. Ryńska, Hab. PhD**

**Arch. Joanna Klimowicz, PhD**

**Arch. Michał Pierzchalski, PhD**

**Thursday 12.15-14.00 ROOM 208**

POSSIBILITIES OF REDEVELOPMENT FOR THE CITY QUARTER LOCATED BETWEEN MARSZAŁKOWSKA STREET, ZBAWICIELA PLACE, NOWOWIEJSKA STREET, NIEPODLEGŁOŚCI AVENUE, CHAŁUBIŃSKIEGO STREET AND JEROZOLIMSKIE AVENUE  
A proposal of redevelopment and analysis of development possibilities in the main part of the Warsaw city. Students may divide indicate area into smaller areas (not smaller than half of the indicated area) and work on the chosen area.

1. analysis of the existing investments and the development possibilities in the chosen area – including photographs
2. analysis of the type of prevailing function – residential, offices, retail, education, culture etc.
3. analysis of valuable historic sites – set against development possibilities
4. analysis of the transport systems
5. analysis green areas and access to recreation
6. SWOT analysis of the area (Strength, Weaknesses, Opportunities, Threats)
7. Conclusion and suggestions:
  - how the zone may be developed – zones, phases, functional areas
  - which type of investment should be created for the best development of the zone
  - proposed changes

Work should be produced on at least two A0 (50 x 70cm) boards. Students must show the existing state, the conclusion of the SWOT analyses and their proposal for the development of the area.

## II. The choice of the courses:

Please, find below our choice of non-compulsory subjects that can be declared as a part of your individual study program. The subjects are in 3 groups: Architectural Design, Urban & Town Planning and Additional Elective Courses.

Please, remember that only limited number of participants could be admitted to particular, non-compulsory classes. Student should choose subjects during enrollment process in Erasmus Students' Office (room 21) and next fill in a personal list of declared subjects.

### 1. Architectural Design

#### ARCHITECTURAL DESIGN

#### TO BUILD ON WATER, 60 H, 8 ECTS (MAX. 8 STUDENTS)

Arch. Łukasz Piątek, PhD

lukasz.piatek@pw.edu.pl

Monday 12.30-15.30 Room 0-111

**The aim of the course is to develop a functional, attractive and feasible solution to the problem of living and working on water in large European cities.**

Class is organized in the following manner: there is one, approx. 4,5-hour-long (6 x 45min.), design session per week that usually consists of: 1) homework designs presentation and discussion; 2) the lecture introducing a new design theme or aspect; 3) teacher supervised design workshop on the new design theme or aspect (work is to be continued at home during following week).

At the beginning of the course students explore and present examples of water-based floating architecture built worldwide (preferably: in their countries), assign them to the given typology of such buildings. They also try to identify the main advantages and disadvantages of "building and living on water". Finally they design a floating building or a floating neighborhood of small sized houses in Warsaw in a given location. The technology of the building will be advised by the teacher to suit the given purpose and location.

The course ends with design presentation consisting of: project location, visualization or scale model showing the building in the context; plans and sections, schemas; elevations and architectural details, project description.

To Build on Water is an architectural design studio - even though, students who are interested in urban design are welcome, too. They can answer water-related urban

issues by developing a complex of buildings instead of architectural detailing (in this case the course plan and deliverables will be discussed individually with the teacher).

### **ARCHITECTURAL DESIGN**

#### **PUBLIC FACILITY BUILDING, 60 H, 8 ECTS (MAX. 10 STUDENTS)**

**Prof. Arch. Andrzej Gawlikowski, Hab. PhD**

**Arch. Dana Matouk**

**Monday 11.00-13.00 Room 207 and Thursday 9:30-12.00 Room 207**

#### **SCHOOL BUILDING LOCATED IN RESIDENTIAL AREA**

Student will design a small school facility - primary or secondary school - with a specific program (sports, music, science etc.). The project should include the best architecture design solution in the context of the surroundings and analysis of the needs and expectations for each type of school.

Program must be discussed and accepted by the professor. Solutions must relate to the existing urban and natural environment.

The final project must include:

- site plan, floors and roof plans, cross sections, elevations;
- part of the project showing interiors and chosen details, green areas, small architecture;
- schemes, analysis and inspirations – newest world realizations comparable with design which amuses him lately.

### **ARCHITECTURAL DESIGN**

#### **UNIVERSAL SMALL RESIDENCE FOR TEMPORARY USE, 60 H, 8 ECTS (MAX. 10 STUDENTS)**

**Arch. Maciej Czarnecki, PhD**

[maciej.czarnecki@pw.edu.pl](mailto:maciej.czarnecki@pw.edu.pl)

**Monday 13:15-15:00 Room 121 and Wednesday 10:15-12:00 Room 121**

The project of an individual form of residence for 2-4 people, intended for temporary use. Location, climate considerations, and relevant contextual issues are subject to individual arrangements while working with students. Residential premises are supposed to have a specific user, such as a homeless person, a tourist, a canoeist, a cyclist, a pilgrim, a war refugee, a student, a holidaymaker, a pensioner, etc. A utility program depends on the individual concept. Work based on tasks resulting from the

following stages of the study. The project is developed individually with elements of workshop confrontations and team tasks.

**ARCHITECTURAL DESIGN  
REGENERATION AND CONVERSION OF ARCHITECTURAL HERITAGE,  
60 H, 8 ECTS (30 MEETINGS)  
Arch. Marcin Górski, PhD**

**Monday 18.00-20.00 Room 209 and Thursday 15.00-17.00 Room 209**

The objective of the course is to approach the designing process with consideration of various elements of it such as visual, function, structure and environment. During the course of the term you will be assigned of two stages of project:

- Sketch design of a contemporary supplement to old structures - 10 meetings  
Designed (preliminary) forms should be inspired by an old architecture and other elements of cultural surroundings in a chosen site: typical forms of buildings; characteristic building materials, textures and colours; characteristic architectural details; elements of green - essential to the project.

- Project of a contemporary supplement to old structures - 20 meetings  
It's a developed continuation of an idea of the sketch design. It has to be a new architectural supplement of an old architecture. Recommended is to tie the new building with any old existing in the site (if it's possible). Expected is creation of a new architectural quality through the symbiosis between the new and the old. Designed building is expected to be of medium size. Exact size and internal program will be specified after student's research and primary analysis.

Proposed location of the project is in the Fort IV Chrzanów of the Warsaw Fortress. Built on the outskirts of Warsaw in second half of XX century by Russian, was situated in outer belt of fortifications. It had to defend of west entry to the city. Up to now there are still existing earth form of the fort, and south part of barracks – made of brick, with earth cover.

The designing task may concern adaptation of the existing part of barracks and introducing a new building into the place of destroyed part. The supplement should meet the conservatory requirements.

## **2. Urban & Town Planning**

### **URBAN DESIGN**

#### **THE NEIGHBORHOOD, 72 H, 8 ECTS**

**Prof. Arch. Krzysztof Domaradzki, Hab. PhD**

**Arch. Roman Wrzosek, PhD**

**Arch. Paweł Trębacz, PhD**

**Monday 10.15-12.30 Room 306 and Thursday 9.45-12.00 Room 306**

The topic of this semester urban design is a neighborhood on the site of about 10 hectares located in Warsaw, inscribed into existing developments of the town.

Sites to be chosen:

- Area of Bartycka Street Development (1 site )
- Postindustrial district Służew Przemysłowy (1 site )
- Area in vicinity of the Keller's Ponds (1 site)

Detailed instruction, background maps and the course requirements will be discussed and distributed at the first meeting.

### **URBAN DESIGN**

#### **LOW DENSITY HOUSING ESTATE, 72 H, 8 ECTS (MAX. 10 STUDENTS)**

**Prof. Arch. Andrzej Gawlikowski, Hab. PhD,**

**Arch. Dana Matouk**

**Monday 11.00-13.00 Room 207 and Thursday 9:30-12.00 Room 207**

#### **LOW DENSITY HOUSING ESTATE**

Student will design a small residential area of low-density housing, located in Warsaw. The project should include the best architecture design solution of various types of single and multifamily buildings in the context of the surroundings environment.

The final project must include:

- site plan explaining the project (scale 1:1000) showing surroundings, public and semiprivate spaces and green areas;
- selected part of the design (scale 1:200);
- visualization.

### **3. Additional Elective Courses (once a week)**

#### **DRAWING STUDIO**

#### **FREEHAND DRAWING AND WATERCOLOUR, 30 H, 2 ECTS**

Arch. Joanna Pętkowska-Hankel

**Friday 10.15-12.00 Room 323**

The focus of the course is the use of freehand drawing and painting in the architectural and urban planning practice, especially as a medium preparing for creative thinking and building a 'database' from which architects draw their knowledge and inspiration in design. Participants become competent in rules of recording on paper surrounding space and its attributes. They learn how to reproduce understood information and create new ones.

The course is taught at all skill levels. It brings closer the basics as well as advanced aspects of drawing:

- in theory – through short introduction lectures about visual perception, perspective, proportions, scale etc.
- in practice – through drawing exercises, also en plein air.

#### **SEMINAR**

#### **COMPUTER AIDED STRUCTURAL DESIGN 2, 30 H, 2 ECTS (MAX. 15 STUDENTS)**

Prof. Wiesław Rokicki, Hab. PhD

Arch. Joanna Pietrzak

**Tuesday 12.15 – 14.00 Room 110**

**Information meeting: 19.02.19, 12:15**

**First meeting: 26.02.19, 12:15**

**If the group will be small – next classes will take place on Tuesday 15:15-17:00**

The course is intended for students interested in interdisciplinary issues combining architecture and designing spatial structures. One of the aims of the course is stimulating students' creative imagination by enabling them to design modern architecture with the help of computer-aided analyses and modelling.

Students will learn to shape the structures to reach the optimal effect. They will improve structural forms according to the results of the analyses and optimizations. The subject of the course are the structural and strength analysis of a selected spatial structures. Students' task will be to study structural elements in various geometrical variants, concerning the material and geometrical optimization.

All the classes will take place in our computer laboratory. At the beginning of the semester students will be taught how to use program Robot Structural Analyses. Then the students will proceed with their own structural analyses. The course will be ended with the results presentations and discussions.

Optionally, students might be thought preoptimisation of the designed structures with the help of algorithmic tools such as Grasshopper/Lunchbox/Kramba.

To get the credit for this course students must attend the classes (once a week), prepare a presentation about the results of static strength computer analyses and submit a paper about these results in a digital and a printed version.

## **PROJECT**

### **STRUCTURAL DESIGN 2, 60 H, 6 ECTS (MAX. 15 STUDENTS)**

**Prof. Wiesław Rokicki, PhD**

**Arch. Joanna Pietrzak**

**Wednesday 14.15 – 17.00 + individual consultations Room 217 (computer classes in room 110)**

**Information meeting: 20.02.19, 14:15**

**First meeting: 27.02.19, 14:15**

The course is intended for students interested in interdisciplinary issues combining architecture and designing spatial structures. Students will learn the interdisciplinary approach to the designing process.

The aim of the course is to develop the skill of designing of structural systems and structural details for small forms, which at the same time are structure and architecture (i.e.: pavilions, towers, footbridges). Students will learn how to design and analyse spatial structures as well as to understand their behaviour. One of the goals of the course is stimulating students' creative imagination by enabling them to design modern architecture with the help of computer-aided analyses and modelling. Forms designed by the students should be characterized by logical structures and unique, visually attractive shapes.

The course is divided into four parts: the search for inspirations, the design of the concept, the computer-aided analyses and the design of a chosen details. During presentations students discuss the most interesting modern projects of small structures. Later, students design their own projects, as a result of the individual search for forms based on high technology and modern structural materials. Then the students will be expected to proceed with their own analyses.

To get credit for this course students must prepare three presentations (one concerning inspirations, the other one including students' individual concept and the final one about computer analyses and the whole project), prepare the project and attend the classes (once a week).