

## International Studies in the Faculty of Architectural and Environmental Engineering

The Faculty of Architectural and Environmental Engineering offers for the incoming exchange students:

- 1) Course of Applied Architecture
- 2) Practical trainings in the field of Architectural and Environmental Engineering

### 1) COURSE OF APPLIED ARCHITECTURE

**Duration:** 8 weeks (end of January – end of March)

**Term:** VI (III year spring term)

**Content:** Consists of 4 projects:

Lecturer	Project area	Testing of knowledge	ECTS CP
lect. Andres Põime	Design Principles of Dwelling Apartment	Course project of Dwelling Apartment (on a concrete plot)	4,0
Prof. Irina Raud	Urban Structure	Course project of detailed plan (of dwelling apartment area).	4,0
Lect. Tiina Tuulik	Selection of Plants and Their Use in Landscape	Course project of Landscape Design of Residential Building Area	2,0
Lect. Ülo Amor	Survey of Traffic Classification	Course project of Traffic Solution of Residential Area	2,0

### 2) PRACTICAL TRAININGS

Field of practical training	Exam/ Preliminary Exam	Duration	Term	ECTS CP
Enterprise practice	P	10 weeks	Spring	18,0
Construction Management Practice	P	4 weeks	Spring	4,0

## **SUBJECT CARDS**

### **Design Principles of Dwelling Apartment**

Lect. Andres Põime

Room program. Functional scheme. Situation plan.

Project components: layouts, elevations, sections, architectural joints, site plan, explanatory note.

Project stages: final design.

The aim of the course: to design a dwelling house on the sketch stage based on the given program.

Course description: The students are given written design requirements for selecting the location, number of floors, the program of the apartments etc. Overall requirements, special requirements, recommended building materials/ constructions and requirements for the presentation are also pointed out. The project is preceded by lectures about the large scale and spatial building elements used in dwelling houses. The course ends with a public presentation.

### **Urban Structure**

Prof. Irina Raud

Visiting city and analyzing residential areas developed in different periods. Examples of new residential building areas abroad. Innovative solutions of traffic control and parking.

Proposal provisions of public services and amenities with landscaping.

The aim of the course: to acquire and deepen specific spatial and environmental knowledge by formatting an apartment block spatial plan.

Course description: The course is divided into two parts: the theoretical and practical part. The spatial planning will be parallel with the architectural design, traffic and environmental design courses. The students must participate at least in one seminar analyzing apartment block areas. The course ends with a public evaluation.

### **Selection of Plants and Their Use In Landscape**

Lect. Tiina Tuulik

Conifers. Broad-leaved trees. Plants of hedge. Bushes. Lawns. Toxic plants. Soil. Biotic community. Forests.

Landscape parks. Parks. Avenues. History of landscape design/architecture: urban, castle and manor parks.

Modern landscape design. Using different plants together, in groups. Graphic layout of landscape drawings.

The aim of the course: learn to draw a landscape project on basic level. To master the skill of co-operation between an architect and landscape architect on a project. Overview of building materials for landscape: plants, pavements, small forms etc.

Course description: create two projects. Lectures are held as introduction to the project. Exercises linked to the plot through Kevin Lynch analyzing method, historical backgrounds study etc. Developing skills of self-expressing through written essays and explaining first sketches and final project.

## **Survey of Traffic Classification**

Lect. Ülo Amor

Street network as a part of urban structure. The main principles of street designing. The aim of the course is to assume specific knowledge in street design.

Course description: Parking facilities. Traffic calming. Vertical planning. Traffic planning of city centers. Little architectural forms in street space. Traffic safety. Public transport.

Credit test: Preliminary project of multistorey car park. Street design of multistorey housing area.

## **Enterprise Practice**

The aim of the practical training is to acquire and deepen specific vocational knowledge by working in an architecture office/ local government as a spatial planner/ architect.

Description: - familiarization with the specifics of the field of study

- usage of the designing software

- participation in teamwork

- technical formalities of quality- and safety regulations

- participation in the structure unit on every day bases.

The documentation of the practice must be composed accordingly to the office requirements. The documentation must be done weekly evaluating the work and progress.

## **Construction Management Practice**

The aim of the practical training is to carry out the practical training directly on the building site as an assistant to the construction manager and/or in a project/design company (monitoring the building under construction) as an assistant to the project manager (architect).

Description: Carrying out the practical training directly on the building site as an assistant to the construction manager and/or in a project/design company (monitoring the building under construction) as an assistant to the project manager (architect). Familiarising with the purpose of the building, the project, and main and subcontractors of the construction. In addition, getting an overview of the services of the certain building. Familiarising with the organisation of competition of the building and the use of finances. Keeping the diary about practical training. Compiling the report according to the instruction + photos.