

Course name: Related Disciplines of Design (Architecture)

Course code: YAWRDAFMNF

Hours per week: 1 lecture / 2 practice / 0 laboratory; Final mark/ 3 credit

Precondition for Erasmus students: 4 semester Architectural Design

In charge: Senior Lecturer Dr. Vizi Gergely Norbert PhD,

Lecturers: Assoc. Prof. Talamon Attila PhD, Szakács Gergely, Badik Szabó Dániel

OBJECTIVE OF THE COURSE:

The objective is to get the students acquainted with legal and technical requirements of engineering specialists' contribution to architectural design and to prepare them for the practical side of it.

14 WEEKS SCHEDULE

1. lecture: Basics of static
1. practice: Introduction: goal of the lecture, tasks and requirements. The Project Life Cycle, Participants, Roles
2. lecture: Basics of static
2. practice: Project management, The Design and Construction Process
3. lecture: Basics of static
- 3 practice: Labor, Material and Equipment Utilization, Construction Methodologies
4. lecture Basics of static
- 4 practice Virtual site visit
5. lecture Basics of static
- 5 practice Cost Estimation, Construction Pricing
6. lecture Engineering water supply domestic hot water production
- 6 practice Contracting
7. lecture Engineering sewerage, rainwater drainage / rainwater recovery
- 7 practice Construction planning, scheduling
8. lecture Engineering, fire protection systems (sprinkler)
- 8 practice Cost control, monitoring, project reporting
9. lecture Engineering heating, gas supply, cooling / overheating, heat generators, heaters, heat exchangers
- 9 practice Quality Control, Safety
10. lecture Engineering ventilation, building automation,
- 10 practice: Handover process, Operation and Maintenance
11. lecture Renewable energy sources, Solar Cells, Solar Collectors
- 11 practice: Handover process, Operation and Maintenance
12. lecture Renewable energy sources, Heat pumps, Biomass
- 12 practice: Presentation
13. lecture TEST
- 13 practice: Presentation
14. lecture: Summary, conclusion
14. practice: Corrective TESTs, expletive submission

Assessment:

1 Tests

2 Mid term assignment:

#1 Detailed drawing with structural appellations of a chosen multistory building, presenting the studied building construction elements and appliances like the heating systems and plumbing systems.

#2 To research and prepare construction technology, schedule and project management related questions related to the design task.