



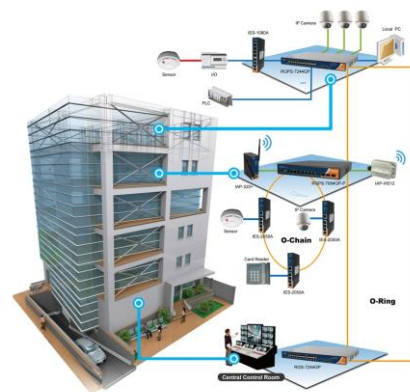
SPLIT SUMMER SCHOOL STSS2020

COURSE: Introduction to the Energy Efficiency in Buildings

Contact person: Boris Ljubenkovic; boris.ljubenkovic@fesb.hr

Main topics:

- Analysis of thermal losses and heat gains in buildings,
- Analysis of the main energy consumers and energy systems in building facilities,
- Primary fuels used in buildings and their environmental aspect,
- Introduction to the modern energy concepts and in general methods to increase energy efficiency in building facilities,
- Energy efficiency measures in buildings, i.e. their technical and economic aspect (case study)
- Introduction to the sustainable energy management in buildings,
- Introduction to the energy audit and building energy certification



Programme structure:

- 5-day course
- Sample data will be provided for practice and for final presentation
- Lecture notes will be available either on-line or in printed form

Important dates:

Course dates: 31/08/2020 – 04/09/2020
Deadline for application: 01/08/2020
Confirmation of the course: 15/08/2020
Payment due by: 24/08/2020

Price of the course: 300 € (tax included)

Programme plan:

Day 1

- Introduction to the energy efficiency in buildings, surroundings and challenges.
- Introduction to the methods for calculation of heat losses and gains in buildings.

Day 2

- Introduction to the energy efficiency measures in buildings:
Part I - (Building thermal envelope /heating and cooling systems, integration of renewables in buildings).

Day 3

- Introduction to the energy efficiency measures in buildings:
Part II - (lighting systems, water consumption systems).

Day 4

- Realisation of the project task.

Day 5

- Presentation of final projects and discussion with scholars.
Final exams and grading of final projects.

Programme lecturers:

Sandro Nižetić PhD,

Associate Professor at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, Split, Croatia, LTEF-Laboratory for Thermodynamics and Energy Efficiency

Vladan Prodanović PhD,

University of British Columbia, Canada