



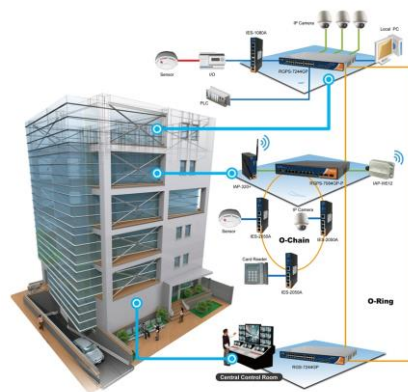
SPLIT SUMMER SCHOOL STSS2019

**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: 02/09/2019 – 06/09/2019  
Deadline for application: 01/08/2019  
Confirmation of the course: 15/08/2019  
Payment due by: 24/08/2019

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