



COST Action TU1104 – Smart Energy Regions
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Early Stage Researchers Training School INTEGRATED APPROACH TO RETROFITTING EXISTING DWELLINGS

Date of course: Monday 20th to Thursday 23rd April 2015
Location: Faculty of Architecture, University of Belgrade, Belgrade, Serbia.
Case study area: Belgrade region and the New Belgrade neighbourhood.
Local organiser: Faculty of Architecture, University of Belgrade, Serbia.



The COST Action TU1104 “Smart Energy Regions” will run a training school for Early Stage Researchers looking at “Integrated approach to retrofitting existing dwellings”. The scientific focus of the Training School is the improvement of the environmental and energy performance of existing neighbourhoods at a regional scale.

Topics

The course covers **theory** associated with:

- Retrofitting – urban design;
- Retrofitting – building design;
- Modelling and simulations - procedures of simulations of energy performances of different design solutions using appropriate software;
- Monitoring with a distinct regional approach.

Practical work focuses on New Belgrade and involves:

- A Field trip;
- Analysis of the existing situation;
- Design of retrofitting concepts;
- Modelling and simulations, comparative analyses;

- IT solutions for building management and retrofitting - visit to 'smart' multi-use commercial facility or show room.

The **trainers** are members of the Smart Energy Regions COST Action and include:

- Prof. Aleksandra Djukic, Faculty of Architecture, University of Belgrade, Serbia;
- Prof. Aleksandra Krstic-Furundzic, Faculty of Architecture, University of Belgrade, Serbia;
- Arch. Luis Barajas, Polytechnic University of Catalunya, Spain;
- Arch. Giuseppe La Ferla, Chapman Taylor España, Spain;
- Dr. Slobodan Lukovic, University of Lugano, Switzerland.

The main goal of the Training School is to offer an opportunity to reflect upon about how retrofitting of neighbourhoods can contribute to energy and environmental improvement of regions in a different context whilst enabling attendees to interact with other researchers from across Europe.