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UKRENERGY



**«Innovative Master Courses Supporting the
Improvement of the Energy and Carbon
Footprint of the Ukrainian Building Stock»**

UKRENERGY

***Intensive retraining course
Energy Efficient Buildings***

16 September – 20 September 2024

***Slovak University of Technology in Bratislava
(STUBA)***

***Faculty of Civil Engineering´s building,
Radlinského 11, Bratislava***

UKRENERGY project

Overview

Project aims:

UKRENERGY project is promoted by European Commission in the frame of the Erasmus+ programme, Key Action 2, aimed at fostering the “Capacity Building in Higher Education (CBHE)” of the Partner Countries external to the European Union Member States.

UKRENERGY pursues the main objective to promote teaching and learning excellence in Ukraine in line with the Bologna Process principles.

The specific project objectives focus on:

- To learn about modern teaching methods in the field on Energy Sustainability in Buildings matching labour market demand.
- Enhancing the expertise of UA Jr. teaching staff to direct the teaching offer towards problem solving of energy and building renovation issues.
- Spreading and fostering the knowledge towards the European Green Deal and the requirements set by EU 2030.

The UKRENERGY project has had a coordination meeting hosted by AGH in Krakow 6th – 10th May 2024, with the participation of all the Partner Institutions from Ukraine, Italy, Poland and Slovakia.

The retraining course 'Energy Efficient Buildings,' hosted by Slovak University of Technology in Bratislava, is aimed at enhancing the harmonization of academic approaches and stakeholders’ engagement for developing new courses and enabling junior teaching staff at Ukrainian universities to understand and learn new Teaching-Learning-Assessment methods and implement them into the educational process.

Training course expected results

- Ukrainian Universities have an understanding on how to develop the new Master Study Programme in the framework of their teaching offer
- Junior teaching staff at Ukrainian universities understand and learn new Teaching-Learning-Assessment methods, and implement them into the educational process

Retraining course

Monday 16th September 2024	
Faculty of Civil Engineering 's building, Radlinského 11, C0202, 2 nd floor	
Meeting point at 9:30, Building of Faculty of Civil Engineering, Imricha Karvaša street, Main entrance	
09:30 - 10:00	<ul style="list-style-type: none"> ▪ Arrival and Registration of the participants
10:00 - 11:00	<p>WELCOME SESSION</p> <ul style="list-style-type: none"> ▪ Opening ceremony <ul style="list-style-type: none"> ▪ Speech by Rector of STU Oliver Moravčík ▪ Speech by Janka Zajacova, Vice-Chairwoman of the Academic Senate of STU ▪ Speech by the representative of the Ministry of Education, Research, Development and Youth of the Slovak Republic ▪ Meeting with UKRENERGY project manager ▪ Welcome speech by prof. Ing. Štefan Stanko, PhD. ▪ Group Photo(s)
11:00 - 12:00	<ul style="list-style-type: none"> ▪ Presentation of study opportunities at the university with a focus on the Faculty of Civil Engineering ▪ Discussion
12:00 - 13:30	Free lunch break
13:30 - 17:30	<p>ACADEMIC DIMENSION OF THE TRAINING COURSE</p> <ul style="list-style-type: none"> ▪ Academic session with prof. Štefan Stanko, prof. Ivona Škultétyová, Dr. Jaroslav Hrudka, Dr. Réka Wittmanová ▪ Optimization of the Volumetric and Spatial Parameters of Buildings as a Tool to Mitigate Climate Change ▪ Utilization of AI in the Teaching and Research Process ▪ Utilization of Rainwater in the Context of Reducing the Energy Demand of Buildings
17:30 - 17:35	Summing-up

Tuesday 17th September 2024

Faculty of Civil Engineering 's building, Radlinského 11, C0202, 2nd floor

Meeting point at 08:55, Building of Faculty of Civil Engineering, Imricha Karvaša street, Main entrance

09:00 - 09:10	▪ Arrival and Registration of the participants
09:10 - 12:00 (incl. break)	ACADEMIC DIMENSION OF THE UKRENERGY PROJECT <ul style="list-style-type: none">▪ Prof. Ing. Dušan Petráš, PhD.: Education in building services▪ Prof. Ing. Michal Krajčík, PhD.: Research on Department of Building Services
12:00 - 13:30	Lunch break
13:30 - 17:00	ACADEMIC DIMENSION OF THE UKRENERGY PROJECT <ul style="list-style-type: none">▪ Prof. Ing. Michal Krajčík, PhD.: Energy retrofit of buildings▪ Prof. Ing. Dušan Petráš, PhD.: Energy efficiency measures in buildings
17:00 - 17:05	Summing-up

Wednesday 18th September 2024

Faculty of Civil Engineering 's building, Radlinského 11, C0202, 2nd floor

Meeting point at 08:55, Building of Faculty of Civil Engineering, Imricha Karvaša street, Main entrance

09:00 - 09:10	▪ Arrival and Registration of the participants
09:10 - 12:00 (incl. break)	ACADEMIC DIMENSION OF THE UKRENERGY PROJECT <ul style="list-style-type: none">▪ Prof. Ing. Michal Krajčík, PhD.: Energy certification of buildings▪ Ing. Anna Predajnianska, PhD.: Energy efficiency measures in a house – case study
12:00 - 13:30	Lunch break
13:30 - 17:00	ACADEMIC DIMENSION OF THE UKRENERGY PROJECT <ul style="list-style-type: none">▪ Prof. Ing. Dušan Petráš, PhD.: Energy management and monitoring of buildings▪ Panel discussion
17:00 - 17:05	Summing-up

Thursday 19th September 2024

Faculty of Civil Engineering 's building, Radlinského 11, C0202, 2nd floor

Meeting point at 08:55, Building of Faculty of Civil Engineering, Imricha Karvaša street, Main entrance

09:00 - 09:10

- Arrival and Registration of the participants

09:10 - 12:00
(incl. break)

ACADEMIC DIMENSION OF THE UKRENERGY PROJECT

- Academic session with prof. Štefan Stanko, prof. Ivona Škultétyová, Dr. Jaroslav Hrudka, Dr. Réka Wittmanová
- Sustainability in the construction industry
- Can we find ultimate circle in building materials?
- Life Cycle Assessment in Civil Engineering

12:00 - 13:30

Lunch break

13:30 - 17:00

ACADEMIC DIMENSION OF THE UKRENERGY PROJECT

- Academic session with prof. Štefan Stanko, prof. Ivona Škultétyová, Dr. Jaroslav Hrudka, Dr. Réka Wittmanová
- Calculation of Environmental Parameters Using the LCA Method
- Energy Balance of Wastewater
- Zero Carbon Footprint in Water Management Systems: The Path to Sustainability

17:00 - 17:05

Summing-up

Friday 20th September 2024

Faculty of Civil Engineering 's building, Radlinského 11, C0202, 2nd floor

Meeting point at 08:55, Building of Faculty of Civil Engineering, Imricha Karvaša street, Main entrance

09:00 - 09:10	▪ Arrival and Registration of the participants
09:10 - 12:00 (incl. break)	ACADEMIC DIMENSION OF THE UKRENERGY PROJECT <ul style="list-style-type: none">▪ Academic session prof. Štefan Stanko, prof. Ivona Škultétyová, Dr. Jaroslav Hrudka, Dr. Réka Wittmanová▪ Wastewater as a Heat Source for Increasing the Energy Efficiency of Residential Buildings▪ Systems for Recycling and Heat Recovery from Greywater
12:00 - 13:30	Lunch break
13:30 - 17:00	ACADEMIC DIMENSION OF THE UKRENERGY PROJECT <ul style="list-style-type: none">▪ Academic session with prof. Štefan Stanko, prof. Ivona Škultétyová, Dr. Jaroslav Hrudka, Dr. Réka Wittmanová▪ Water distribution and energy saving in Bratislava – Field trip to Sihoť island▪ Certificate awarding ceremony
17:00 - 17:05	Summing-up

UKRENERGY project Consortium

N°	Official Name (acronym)	Country
P01	UNIVERSITA' DEGLI STUDI DI GENOVA, Coordinator (UniGe)	IT
P02	KYIV NATIONAL UNIVERSITY OF CONSTRUCTION AND ARCHITECTURE (KNUCA)	UA
P03	ODESSA STATE ACADEMY OF CIVIL ENGINEERING AND ARCHITECTURE (OSACEA)	UA
P04	PRYDNIPROVSKA STATE ACADEMY OF CIVIL ENG. AND ARCHITECTURE (PSACEA)	UA
P05	LVIV POLYTECHNIC NATIONAL UNIVERSITY(LPNU)	UA
P06	NATIONAL TRANSPORT UNIVERSITY (NTU)	UA
P07	ODESSA NATIONAL ECONOMIC UNIVERSITY (ONEU)	UA
P08	UKRAINIAN STATE UNIVERSITY OF CHEMICAL TECHNOLOGY (USUCT)	UA
P09	LVIV NATIONAL ENVIRONMENTAL UNIVERSITY (LNEU)	UA
P10	STATE AGENCY ON ENERGY EFFICIENCY AND ENERGY SAVING OF UA (SAEE)	UA
P11	AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY IN KRAKOW (AGH-UST)	PL
P12	UNIVERSITA DEGLI STUDI DELLA CAMPANIA LUIGI VANVITELLI (UNICAM)	IT
P13	SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA (STUBA)	SK
P14	UNIVERSITÀ DEGLI STUDI DI NAPOLI PARTHENOPE (UNIPARTH)	IT

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