Project goals and objectives:

- To upgrade the curricula of BSc/specialists, MSc and PhD programmes with new modules on energetically and ecologically sustainable, affordable and healthy built environment in universities of Belarus, Russia and Ukraine in order to enhance the quality of education in PC universities and its relevance to labour market needs.
- To transfer the Bologna practices in education (curriculum development, ECTS, innovative learning, etc.) from EU universities to PC universities.
- To develop a virtual interuniversity networked educational system (comprising the Intelligent Library, the Intelligent Tutoring System, the Intelligent Knowledge Assessment System, and access to e-sources with research and educational information) in order to ensure cooperation among EU universities and PC universities in education and research.
- To aid PC universities with staff competence building.
- To train at least 240 students during the pilot project.

A key result of the CENEAST project is the launching of the joint distance Master's study programme "Real Estate Management" offered by Vilnius Gediminas Technical University and the Belarusian State Technological University (http://www.vgtu-bstu.eu/; 34 students have already completed the studies) and the joint Master's study programme "Sustainable Real Estate Development" offered by Vilnius Gediminas Technical University and Kaliningrad State Technical University (http://iti.vgtu.lt/kstu/ru-ru/первая.aspx; 19 students have already completed the studies). The two joint distance Master's study programmes are a means to ensure that the mobility of students from the partner country universities (the Belarusian State Technological University and Kaliningrad State Technical University) continues beyond the project.

Partners

P1 - Vilnius Gediminas Technical University

P2 - Alma Mater Studiorum – University of Bologna

P3 - University of Salford/University of Huddersfield

P4 - Tallinn University of Technology

P5 - Belarusian State Technological University

P6 - Yanka Kupala State University of Grodno

P7 - Moscow State University of Civil Engineering

P8 - Saint-Petersburg State Polytechnical University

P9 - Kaliningrad State Technical University

P10 - Moscow State Industrial University

P11 - National Technical University of Ukraine

P12 - National Technical University "Kharkiv Polytechnic Institute"

P13 - Network among Italian researchers and teachers on management

P14 - Association INFOBALT

Tempus

CENEAST

REFORMATION OF THE CURRICULA ON BUILT ENVIRONMENT IN THE EASTERN NEIGHBOURING AREA [CENEAST]

No. 530603-TEMPUS-1-2012-1-LT-TEMPUS-JPCR

OPEN SOURCE PROJECT RESULTS

15th October 2012 – 14th October 2015

European Union's programme Tempus IV (2007 – 2013), Action 1: Joint Projects (JP)

WORKPACKAGES (WP)

WP.1 Management
- D1.1. Development of communication infrastructure
- D1.2. Continual management and reporting

WP.2 Upgrading of BSc, MSc, PhD degree programmes
- D2.1. The framework report for the common curricula
- D2.2. Report on common grounds for teaching and learning
- D2.3. Module specifications and teaching materials

WP.3 Development and Exploitation of the Virtual Interuniversity Networked Educational Centre
- D3.1. Development of e-interuniversity networked system
- D3.2. Development of the virtual research environment
- D3.3. Training, lecturing and guest visits
- D3.4. Training of students

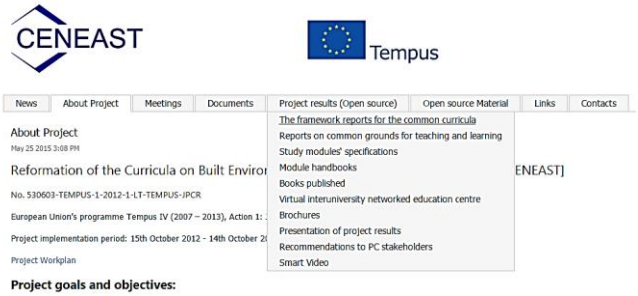
WP.4 Monitoring and Reporting of Results
- D4.1. Report on internal CENEAST monitoring results
- D4.2. Report on external CENEAST monitoring results
- D4.3. Analyses and recommendations

WP.5 Dissemination
- D5.1. Dissemination through branch organizations
- D5.2. Dissemination through international conferences
- D5.3. Dissemination through websites
- D5.4. Printed dissemination material

OPEN SOURCE PROJECT RESULTS

www.ceneast.com

- 18 new modules developed (the target was 16):
  - 7 BSc/specialists modules (the target was 9)
  - 9 MSc modules (the target was 5)
  - 2 PhD modules (the target was 2)
- 1,559 students enrolled in the new modules (the target was 240)
- 12 framework reports for the common curricula
- 13 reports on the common grounds for teaching and learning
- 22 module specifications
- 18 module handbooks
- 16 published books
- Recommendations to PC stakeholders
- Open-source materials:
  - Videos
  - Software
  - Calculators
- The Intelligent Library, the Intelligent Tutoring System and the Intelligent Knowledge Assessment System. http://iti.vgtu.lt/tempus/



Module specifications:

BSc:
- Renewable Energy
- Energy Efficiency in Engineering Systems
- Energy Audit
- Construction Materials for Sustainable Built Environment
- Sustainable Urban Design
- Green Built Environment
- Advanced Construction Technologies for Energy Efficient Buildings
- Project Management in Construction and Construction Site Management
- Energy Efficiency in the Built Environment (additional module)

MSc:
- Development of Environmentally Sustainable Cities
- Green Built Environment
- Sociological Methods in Sustainable Urban Development
- Human Safety, Natural and Technogenic Problems in the 21st Century
- Building Information Modelling (additional)
- Sustainable Real Estate Market Development (additional)
- Smart House
- Smart Built Environment
- Smart and Sustainable Built Environment
- Construction Investments
- Restoration of Cultural Heritage (additional)
- Introduction to Specialty (additional)

PhD:
- Integrated Analysis of the Built Environment Life Cycle
- Principles of Disaster Mitigation and Reconstruction (additional)

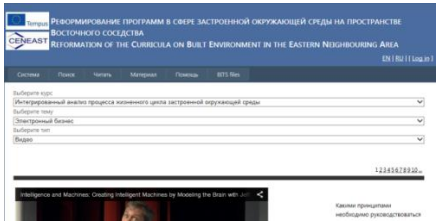
Module handbooks:

- Construction Investments
- Construction Materials for Sustainable Built Environment
- Energy Audit
- Energy Efficiency in Engineering Systems
- Energo
- Green Built Environment (BSc and MSc)
- Integrated Analysis of the Life Cycle of the Built Environment
- Project Management
- Renewable Energy
- Resilience Management
- Smart Built Environment
- Smart House
- Sociological Methods in Sustainable Urban Design
- Advanced Construction
- Project Management
- Sustainable Real Estate Market Development

Published books:

- Analysis of the Life Cycle of the Built Environment
- Energy Efficiency in Engineering Systems
- Renewable Energy
- Smart Built Environment
- Smart House
- Sustainable Urban Design
- Sustainable Real Estate Market Development

The project website (http://www.ceneast.com/) and the Virtual Interuniversity Networked Education Centre (http://iti.vgtu.lt/tempus/) offer open-source videos, calculators and software from the best universities around the world to enhance the module. Students can use these calculators and software to make their calculations and simulate various scenarios for their homework, term papers and final theses. Students may also take part of their examination from the videos they liked. Students themselves may contribute materials to the module's database of videos, calculators and software.



For more information, please visit the project website (www.ceneast.com) and the Virtual Interuniversity Networked Education Centre (http://iti.vgtu.lt/tempus/).