

BECK PROJECT BRIEF

Integrating education with consumer behaviour relevant to energy efficiency and climate change at the Universities of Russia, Sri Lanka and Bangladesh (BECK)

Funding: Erasmus+, EU (598746-EPP-1-2018-LT-EPPKA2-CBHE-JP)

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- Arif Uddin Ahmad, Assistant Professor, Dept. of Geomatics.
- Papri Hazra, Assistant Professor, Dept. of Environmental Science.

Duration: 15 November 2018 to 14 November 2021 (36 months)

Project website: <http://beck-erasmus.com/>

BECK Collaborators



ALMA MATER STUDIORUM
UNIVERSITÄ DI BOLOGNA



Background

Climate change is a result of modern human lifestyles and activities: heating in buildings, power consumption, cars and aircraft, industrial companies and other activities in the built environment contribute greatly to climate change. Climate change leads to extreme weather events, such as storms, flooding, droughts and heat waves.

In the last decade, the world suffered thrice as many weather-related natural disasters as in the 1960s. One of the possible solutions to these problems is improvement of education in environmental protection technology based on consumer behaviour related to energy efficiency and climate change (hereafter BECK education).

Objectives

Main objectives of the project are as follows:

- [1] To upgrade curricula of B.Sc./specialists, M.Sc. and Ph.D programmes in Russian, Sri Lanka and Bangladesh universities by adding 16 new multidisciplinary adaptive, recognised and certificated modules on consumer behaviour related to energy efficiency and climate change, to enhance the quality and relevance of education in Partner Country (PC) and EU universities to global issues;
- [2] To transfer European practices in education from participating EU universities to PC universities;
- [3] To assist competence development of teachers within PC universities;
- [4] To develop the Simulated Big Data Interuniversity Networked Affective Educational Centre to encourage use of ICT-based methodologies in education and research;
- [5] To strengthen educational and scientific networking among EU and PC universities in the BECK field.

Expected Outcomes

The expected outcomes of the project are as follows:

- [1] Universities and non-academic partners directly involved in the project referred as consortium will directly benefit from the project activities in terms of cooperation and networking development. Moreover, the international dimension of the EU involved institutions will be enforced and new opportunities of joint actions with Partner Countries may arise, thus activating a virtuous circle of further cooperation.

- [2] Teaching staff of universities, students and graduates referred as main target group will also directly benefit from the project. They will learn about most challenging issues consumer's behaviour related to energy efficiency and climate change. At least 46 teachers from PC countries will be trained. New developed 16 BECK adaptive MOOC modules will be certified and integrated into the existing study programmes, thus undergraduate and postgraduate students will have direct access to the project outcomes. Students (360 students in class (including 12 PhD students) and 160 MOOC students) of PC universities will study new adaptive MOOC modules during the last year of the project. The new study programmes will give students access to better education and thus they will be better prepared for the labour market and their employability opportunities will increase.
- [3] Universities and organizations of partner countries not included in the project consortium and national and regional authorities, employers and organizations with agreements on employment of graduates are planned to be involved in all key dissemination activities, including participation in round tables, workshops, national and international conferences.

Outcomes of the University (PSTU)

- [1] PSTU involved in all relevant activities in the project including knowledge sharing, capacity building, and coordination.
- [2] PSTU already prepared several reports including report on current state of higher education and its relationship with consumers' behaviour on energy efficiency and climate change; reports on identification of the appropriate issues for cross institutional module sharing; report on capacity building framework, etc.
- [3] PSTU participated in all coordination meetings and training programs.
- [4] PSTU incorporated three online courses including Land Use and Energy at undergraduate level under Faculty of Land Management and Administration, Green Energy and Climate Change as well as Spatial Urban Planning and Climate Change at post-graduate level under Faculty of Environmental Science and Disaster Management.

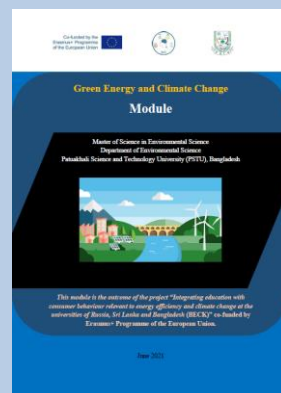
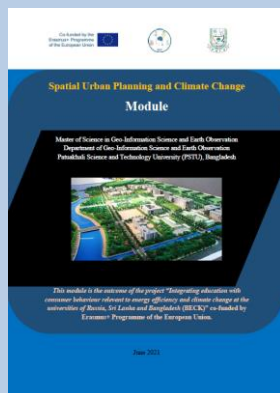
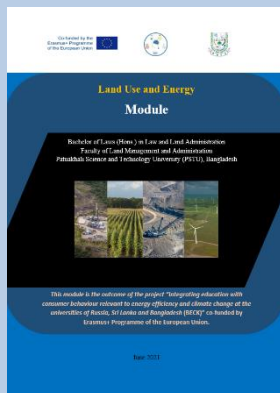


Photo Gallery

Kick-off Meeting on 27th February-1st March 2019 in Colombo, Sri Lanka



Coordination and Common Capacity Building Meeting on 27-28 June 2019 in Huddersfield, UK



Coordination Meeting and Training of Lecturers on 12-15 November 2019 in Vilnius, Lithuania



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