



BECK Kick-off meeting | Minutes

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

Project number: 598746-EPP-1-2018-LT-EPPKA2-CBHE-JP

Meeting date | 27th February – 1st March 2019 | **Meeting location** OZO Colombo Hotel, Colombo, Sri Lanka

Meeting called by	Prof. Artūras Kaklauskas	Participants
Type of meeting	Coordination meeting	Prof. Artūras Kaklauskas, VGTU
Chair	Prof. Artūras Kaklauskas	Prof. Audrius Banaitis, VGTU
Note taker	Assoc. Prof. Dr. Laura Tupėnaitė	Assoc. Prof. Laura Tupėnaitė, VGTU
		Dr. Arūnė Binkytė-Vėlienė, VGTU
		Prof. Irene Lill, TalTech
		Assoc. Prof. Emlyn David Qivitoq Witt, TalTech
		Stefan Shvedov, MGSU
		Dr. Nina Danilina, MGSU
		Dr. Andrei Rymarov, MGSU
		Dr. Elena Gordeeva, KSTU
		Dr. Andrey Nikishin, KSTU
		Dr. Maxim Kharitonov, KSTU
		Prof. Champa Madhumathi Navaratne, UoR
		Prof. Emeritus Kariyawasam Don Nandasiri Weerasinghe, UoR
		Hetti Arachchige Chamila Priyankara, UoR
		Prof. Marco Pretellii, UNIBO
		Prof. Ernesto Antonini, UNIBO
		Dr. Tommaso Rovinelli, UNIBO
		Elena Nikonchuk, SPbPU
		Dr. Alla Mazina, SPbPU
		Dr. Marina Petrochenko, SPbPU
		Dr. Vladimir Andreev, ASV
		Dr. Zinaida Ivanova, ASV
		Assoc. Prof. Maria Ulyanova, MSU
		Prof. Vladimir Echenique, MSU
		Prof. Irina Teleshova, MSU
		Md Abubakkor Siddik, PSTU
		Md Ashiqur Rahman, PSTU
		Dr. Palliyawaththage Ransil Nishara Fernando, UoC
		Prof. Lasantha Manawadu, UoC
		Deeya Gahage Nedha Thiwanka de Silva, UoC
		Dr. Dhiman Kumer Roy, BU
		Abu Jafor Mia, BU
		Sukhen Goswami, BU
		Prof. Rangika Halwatura, UoM
		Anuradha Peramunugamage, UoM
		Thamali Fonseka, UoM



AGENDA

Meeting date | 27th February – 1st March 2019 | **Meeting location** OZO Colombo Hotel, Colombo, Sri Lanka

Date /Time	Activity	Speaker
26th February 2019		
	Partners arrive to Colombo	
27th February 2019		
08:30 – 09:00	Registration, tea/coffee	
09:00 – 09:20	Welcome and brief introductions	Artūras Kaklauskas Rangika Halwatura
09:20 – 10:30	EU, Russian and Asian Partners introductions 10 minutes introduction by each partner, covering description of institution and expertise related to the BECK project	All partners to present
10:30 – 11:00	Tea/coffee break	
11:00 – 12:00	EU, Russian and Asian Partners introductions 10 minutes introduction by each partner, covering description of institution and expertise related to the BECK project	All partners to present
12:00 – 13:00	Lunch break	
13:00 – 14:30	Introduction to BECK <ul style="list-style-type: none"> • Project Description – What is the project about? • Project goals, aims, objectives and scope • Purpose – Why the project is being done • Project team / project organization chart • Stakeholders and target groups • Roles and Responsibilities • Overall Work plan • Administrative and financial procedures 	Artūras Kaklauskas Audrius Banaitis Laura Tupėnaitė Arune Binkyte-Vėlienė
14:30 – 15:00	Tea/coffee break	
15:00 – 17:00	WP1: Report for capacity building framework and discussion	All partners to present
19:00	Dinner at OZO Colombo Hotel	
28th February 2019		
07:00 – 15:00	Team building and social activity Visit to the Thurulie	All
15:00 – 16:00	WP1: Report for capacity building framework and discussion	All partners to present
16:00 – 16:30	Tea/coffee break	
16:30 – 17:30	WP1: Report for capacity building framework and discussion	All partners to present
20:00	Dinner at OZO Colombo Hotel	
1st March 2019		
09:00 – 10:30	Introduction to each WP, upcoming works	WP Leaders
10:30 – 11:00	Tea/coffee break	
11:00 – 12:45	Introduction to each WP, upcoming works	WP Leaders
12:45 – 13:00	Work plan and next meeting A summary of key actions and priorities for the next 6 months, and planning towards next meeting	Artūras Kaklauskas
13:00 – 14:00	Lunch	
2nd March 2019		
	Departure	



AGENDA TOPICS: 1ST MEETING DAY

1. Welcome and opening of the meeting

Time allotted | 27/02/2019 08:30 | **Registration of participants and coffee**

Time allotted | 27/02/2019 09:00 | **Agenda topic** | *Welcome and brief introductions* |
Presenters *Prof. Rangika Halwatura, UoM and Prof. Artūras Kaklauskas, VGTU*

Discussion: Prof. Rangika Halwatura officially opened a meeting. Prof. Artūras Kaklauskas reviewed the organisational issues. Project meeting agenda was discussed. Each participant presented himself/herself.

2. Introductions of the EU, Russian and Asian partners, covering description of institution and expertise related to the BECK project

Time allotted | 27/02/2019 09:20 | **Agenda topic** | *Introduction of the partners* |
Presenters *All partners*

Discussion: Representatives from each partner institution introduced facts, figures, main education and research areas and expertise related to the BECK project: Dr. Palliyawaththage Ransil Nishara Fernando introduced University of Colombo (P12), Prof. Vladimir Echenique – M. V. Lomonosov Moscow State University (P10), Prof. Champa Navaratne – University of Ruhuna (P6), Stefan Shvedov – Moscow State University of Civil Engineering (P4), Dr. Vladimir Andreev – International Public Organization of Assistance to Construction Education (P9), Dr. Dhiman Kumer Roy – University of Barisal (P13), Dr. Andrey Nikishin – Kaliningrad State Technical University (P5), Elena Nikonchuk – Peter the Great St. Petersburg Polytechnic University (P8), Prof. Irene Lill – Tallinn University of Technology (P3), Prof. Rangika Halwatura – University of Moratuwa (P14), Abubakkor Siddik – Patuakhali Science and Technology University (P11), Dr. Tommaso Rovinelli – Alma Mater Studiorum – University of Bologna (P7), Dr. Laura Tupėnaitė – Vilnius Gediminas Technical University (P1).

3. Introduction to the BECK project

Time allotted | 27/02/2019 13:00 | **Agenda topic** | *Introduction to the BECK project* |
Presenters *Prof. Artūras Kaklauskas, Prof. Audrius Banaitis, Dr. Laura Tupėnaitė, Dr. Arūnė Binkytė-Vėlienė, VGTU*

Discussion: Prof. Artūras Kaklauskas presented aims, objectives and scope of the BECK project, its innovativeness and importance in local, national and international context, methodology, activities and tasks envisaged in WP1: Preparation for Project Activities, WP2: Development of New Adaptive MOOC Modules on Consumer's Behaviour Related to Energy Efficiency and Climate Change, and WP3: Development and Exploitation of the Simulated Big Data Interuniversity Networked Affective Educational Centre.



Prof. Audrius Banaitis introduced WP4: Quality Assurance, WP5: Dissemination and Exploitation of Project Results, WP6: Management, including a strategy for resolution of conflicts.

Dr. Laura Tupėnaitė introduced main target groups of the project, expected outcomes/deliverables, short and long term impacts and a workplan for three years.

Dr. Arūnė Binkytė-Vėlienė presented administrative and financial procedures of the project: general provisions, actual costs, unit costs, overview of supporting documents per budget heading, final financial reporting.

Conclusion:

1. Partners are jointly responsible for delivery of the activities envisaged in the BECK proposal and implementation of the work plan.
2. Responsibilities of the partners are outlined in Agreements among Coordinator (VGTU) and each partner.
3. Each partner must follow administrative and financial procedures, properly collect project documentation and submit required copies of documents to VGTU.

4. WP1: Reports for capacity building framework and discussion

Time allotted | 27/02/2019 15:00 | **Agenda topic** | WP1: Reports for capacity building framework and discussion | **Presenters** *All partners*

Discussion: Each partner presented findings from the reports for capacity building framework: contexts, scope and coverage of education policies related to consumer behaviour relevant to energy efficiency and climate change by HEI, capacity types including institutional capacities, organizational capacities, individual capacities, access to information, knowledge and technology, main needs and gaps in each level.

Prof. Artūras Kaklauskas additionally overviewed the education related to consumer behaviour relevant to energy efficiency and climate change at global level and presented findings from the Horizon 2020 projects.

Conclusion:

Reports shall be summarized for development of the common BECK capacity building framework. Activity is led by the University of Ruhuna, co-leader – University of Huddersfield.



AGENDA TOPICS: 2ND MEETING DAY

1. Team building and social activity. Visit to the Thurulie

Time allotted | 28/02/2019 07:00 | **Agenda topic** | Visit to the Thurulie |

Site visit to sustainable LEED platinum certified building MAS Intimates Thurulie - Clothing factory in Sri Lanka was organized by the University of Moratuwa.

MAS Intimates Thurulie is a visionary departure from a standard factory. It claims to be the world's first clothing factory powered solely by carbon-neutral sources. Energy consumption is 25% lower than comparable factories, and consumption of potable water about half the norm.

To reduce embodied energy in the building, the main exterior walls are made of compressed stabilized earth blocks manufactured close to the building site. The architectural design responds to the tropical climate with a full array of passive cooling measures and a clever cooling system to economically achieve a comfortable indoor environment.

The factory creates an environment that is conducive to lean manufacturing. The production floor is divided into separate areas where workers collaborate in teams, enhancing productivity and employee satisfaction. The factory is profitable to operate, displaying energy efficiency, operational efficiency, and high productivity, with a payback period for the extra cost of making the building sustainable of only five years.

Partners were introduced with the sustainable building principles, had opportunity to visit premises.

2. WP1: Report for capacity building framework and discussion

Time allotted | 28/02/2019 15:00 | **Agenda topic** | Workshop and focus groups to analyse needs, gaps and possibilities for common curricula development |

Presenters *All Partners*

Discussion: Partners were allocated to focus groups according to their specialization and discussed the current state of education on consumer's behaviour related to energy efficiency in the PC and European universities, educational requirements and stakeholder's needs, capacities of project partners to provide necessary infrastructure, context and resource base for education and research.

Each focus group discussed and revealed common needs, gaps and possibilities for common curricula development.

Conclusion:

Reports on the Capacity Needs Assessment Methodology shall be extended. Template will be prepared by the University of Huddersfield.



AGENDA TOPICS: 3RD MEETING DAY

1. Introduction to each WP, upcoming works

Time allotted | 01/03/2019 09:00 | **Agenda topic** | Coordination of activities |

Presenter Dr. Laura Tupénaitė, VGTU

Discussion:

Dr. Laura Tupenaite (VGTU) presented the overall structure of work packages, WP leaders and co-leaders and encouraged collaboration in management of WPs.

Conclusion:

WP1, WP2, WP4, and WP5 are led by partners from Sri Lanka, Russia and Bangladesh. Co-leaders from European countries shall support PC partners in coordination activities.

Time allotted | 01/03/2019 09:15 | **Agenda topic** | WP1: Preparation for Project Activities |

Presenter Prof. Champa Navaratne, UoR

Discussion: Prof. Champa Navaratne presented details of WP1 implementation: objectives, related assumptions and risks, tasks, expected deliverables/results/outcomes. WP1 will be implemented by following activities:

- 1.1. Workshop and focus groups to analyse needs, gaps and possibilities for common curricula development;
- 1.2. Preparation of reports by each university based on the Capacity Needs Assessment Methodology (United Nations 2013);
- 1.3. Development of BECK capacity building framework;
- 1.4. Development of guidelines and accreditation rules for the quality assurance of MOOCs.

Prof. Champa Navaratne encouraged discussion on extension of deadlines for WP1 activities and deliverables. Revised terms:

Activities		Total duration (number of weeks)												
Ref.nr/ Sub-ref nr	Title		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
			Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19
WP1	Preparation for Project Activities													
Task 1.1 Del. 1.1	Workshop and focus groups to analyse needs, gaps and possibilities for common curricula development	2	1X	1X		x	x	x						
Task 1.2 Del. 1.2	Preparation of reports by each university based on the Capacity Needs Assessment Methodology (CAPNAM)	8		4= 4X	4= 4X			x	x					
Task 1.3 Del. 1.2	Development of BECK capacity building framework	9			4= 4X	4= 4X	1= 1X		x	x				
Task 1.4 Del. 1.3	Development of guidelines and accreditation rules for the quality assurance of MOOCs	8			4= 4X	4= 4X			x	x				



Workshop and focus groups to analyse needs, gaps and possibilities for common curricula development were already held on the 28th of February, 2019, however, these activities will be additionally undertaken at each PC institution.

Each partner has to prepare a report based on the Capacity Needs Assessment Methodology according to extended template and submit these reports to UoR, UoH and VGTU by May 2019. Reports shall be summarized by UoR and UoH and common BECK capacity building framework developed by the end of June 2019.

Guidelines and accreditation rules for the quality assurance of MOOCs have to be developed till the end of June. Elena Nikonchuk encouraged discussion on requirements for accreditation rules. It was decided that guidelines and accreditation rules shall be based on OpenupEd quality benchmarks for MOOCs and other national and institutional requirements.

Conclusion:

1. Each partner has to prepare an extended report based on the Capacity Needs Assessment Methodology and submit this report to UoR, UoH and VGTU by May 2019.
2. Reports shall be summarized by UoR and UoH and common BECK capacity building framework developed by the end of June 2019.
3. Each partner has to prepare guidelines and accreditation rules for the quality assurance of MOOCs by the end of June 2019.

Time allotted | 01/03/2019 10:00 | **Agenda topic** | WP2: Development of New Adaptive MOOC Modules on Consumer's Behaviour Related to Energy Efficiency and Climate Change |

Presenter *Dr. Dhiman Kumer Roy, BU*

Discussion: Dr. Dhiman Kumer Roy presented details of WP2 implementation: objectives, tasks, expected deliverables/results/outcomes. WP2 will be implemented by following activities:

- 2.1. Development of a common framework for BECK curricula;
- 2.2. Development of a common approach to learner-centred and real problem-based teaching and lifelong learning activities;
- 2.3. Training of teaching staff in Vilnius;
- 2.4. Development of BECK MOOC modules specifications and teaching (learning) materials and adaptation to different learning contexts and different cycles of studies to different stakeholders;
- 2.5. Assessment, recognition and certification of the developed BECK MOOC modules by universities in Russia, Bangladesh and Sri Lanka and integration to different cycles of corresponding studies.

Prof. Artūras Kaklauskas encouraged partners to consider possible MOOCs that can be developed at each institution.

Conclusion:

1. Templates for report on common framework for BECK curricula and report on common grounds for teaching and learning will be jointly developed by University of Barisal and University of Huddersfield. Each partner has to prepare aforementioned reports.
2. Each partner has to propose MOOCs to be developed in frames of the project. Proposed MOOCs have to be presented in the 2nd project meeting to be held on June 2019 at the University of Huddersfield.
3. Developed MOOCs have to be assessed, recognized and certified at PC universities, integrated to corresponding study programmes and delivered for one year.



Time allotted | 01/03/2019 11:00 | **Agenda topic** | WP3: Development and Exploitation of the Simulated Big Data Interuniversity Networked Affective Educational Centre |

Presenter Prof. Artūras Kaklauskas, VGTU

Discussion: Prof. Artūras Kaklauskas presented details of WP3 implementation: objectives, tasks, expected deliverables/results/outcomes. WP3 will be implemented by following activities:

3.1. Development of the Simulated Big Data Interuniversity Networked Affective Educational Centre (BECK Centre) including: 1) 16 adaptive MOOCs from WP2; 2) Computer learning systems; 3) Big Data Mining; 4) Affective Tutoring System; 5) Access to e-sources; 6) Moodle virtual learning environment;

3.2. Training and lecturing;

3.3. Education of students;

3.4. Feedback and quality improvement.

VGTU is responsible for purchasing of equipment. It will launch a tendering procedure and obtain competitive offers from at least three suppliers and retain the one offering best value for money and quality, observing the principles of transparency and equal treatment of potential contractors and taking care to avoid conflicts of interests.

Conclusion:

VGTU has to immediately launch a tendering procedure for purchasing of equipment.

Time allotted | 01/03/2019 11:30 | **Agenda topic** | WP4: Quality Assurance |

Presenter Elena Nikonchuk, SPbPU

Discussion: Elena Nikonchuk presented details of WP4 implementation: objectives, tasks, expected deliverables/results/outcomes. WP4 will be implemented by following activities:

4.1. Development of quality plan;

4.2. Internal monitoring of BECK results;

4.3. External monitoring of BECK results.

Special attention was paid to Quality plan: strategy, methodology, management, composition and responsibilities of the Monitoring and Quality Control Committee (MQCC), implementation of internal and external monitoring activities.

Participants of the meeting were asked to fill a feedback questionnaire about the Kick-off meeting. 20 minutes workshop was organized by Prof. Irene Lill and Assoc. Prof. Emlyn David Qivitoq Witt. Participants were divided into focus groups and had to develop quality indicators for each WP.

Conclusion:

1. Quality plan will be jointly developed by Peter the Great St. Petersburg Polytechnic University, Tallinn University of Technology and University of Moratuwa by May 2019. It has to be revised and approved by all partners.

2. Great St. Petersburg Polytechnic University and Tallinn University of Technology will prepare final list of quality indicators, based on workshop results.



Time allotted | 01/03/2019 12:15 | **Agenda topic** | WP5: Dissemination and Exploitation of Project Results | **Presenter** *Stefan Shvedov, MGSU*

Stefan Shvedov presented details of WP5 implementation: objectives, tasks, expected deliverables/results/outcomes. WP5 will be implemented by following activities:

- 5.1. Development and promotion of dissemination and exploitation plan;
- 5.2. Dissemination through branch organizations;
- 5.3. Dissemination through websites;
- 5.4. Development of printed dissemination material;
- 5.5. Conduction of dissemination events;
- 5.6. Development of sustainability plan.

Conclusion:

1. Dissemination and exploitation plan will be jointly developed by Moscow State University of Civil Engineering, International Public Organization of Assistance to Construction Education, and University of Colombo by May 2019.
2. All partners are responsible for proper dissemination of project results.
3. All partners have to use project templates with the EU and project logos.

2. Work plan and next meeting

Time allotted | 01/03/2019 12:45 | **Agenda topic** | *Upcoming works* | **Presenter** *Prof. Artūras Kaklauskas, VGTU*

Discussion: Prof. Artūras Kaklauskas highlighted upcoming project works to be urgently completed according the schedule. Prof. Irene Lill initiated discussion on dates of transnational project meetings, dates were revised.

Conclusion:

1. Deadlines for deliverables of WP1 are extended till the end of June 2019. Each partner has to prepare an extended report based on the Capacity Needs Assessment Methodology and submit these reports to UoR, UoH and VGTU by May 2019. Reports shall be summarized by UoR and UoH and common BECK capacity building framework developed till the end of June 2019. Each partner has to prepare guidelines and accreditation rules for the quality assurance of MOOCs by the end of June 2019.
2. Each partner has to propose MOOCs to be developed in frames of the project by March 2019. Proposed MOOCs have to be presented in the 2nd project meeting.
3. VGTU has to immediately launch a tendering procedure for purchasing of equipment for WP3.
4. Quality plan will be jointly developed by Peter the Great St. Petersburg Polytechnic University, Tallinn University of Technology and University of Moratuwa by May 2019.
5. Dissemination and exploitation plan will be jointly developed by Moscow State University of Civil Engineering, International Public Organization of Assistance to Construction Education, and University of Colombo by May 2019.
6. Project web-site has to be created till June 2019 by VGTU.
7. 1st online project meeting will be organized by VGTU in May 2019.
8. 2nd transnational project meeting will be held at University of Huddersfield, UK, June 2019.