



# Project CENEAST 9th Meeting | MINUTES

Meeting date | time 10/11/2014 9:00 AM | Meeting location Moscow State University of Civil Engineering, Moscow

Meeting called by

Prof Alevtina Balakina

Prof PhD DrSc Arturas

Kaklauskas

Type of meeting

Facilitator

Note taker

9<sup>th</sup> project meeting

Igor Pichugin

Lina Peciure

Attenders

Alevtina Balakina, MGSU

Zinaida Ivanova, MGSU

Igor Pichugin, MGSU

Michael Eichner, MGSU

Nina Danilina, MGSU

V. Gagarin, MGSU

Arturas Kaklauskas, VGTU

Jurga Naimavičienė, VGTU

Saulius Raslanas, VGTU

Lina Pečiūrė, VGTU

Massimo Bianchi, UNIBO

Irene Lill, TUT

Emlyn Witt, TUT

Nikolai Siniak, BSTU

Sergei Shavrov, BSTU

Dzimitry Safonchyk, YKSUG

Nikolai Vatin, SPbSPU

Valeriy Beley, KSTU

Andrey Nikishin, KSTU

Petr Dorokhov, KSTU

Andrey Safonov, MSIU

Irene Tkachenko, MSIU

Anatoly Martynenko, MSIU

Leonid Maryushin, MSIU

Konstantin Palaguta, MSIU

Volodymyr Prokopenko, NTUU KPI (online)

Irina Porunkova, NTU KhPI (online)

Nataliia Samoilenko, NTU KhPI (online)





#### AGENDA TOPICS: 1<sup>ST</sup> MEETING DAY

### 1. Structure and Objectives of the 9th meeting

The objectives of the 9<sup>th</sup> meeting are:

- Teaching and training activities: presentations on the module topics (WP3).
- Participation on the International scientific conference "Integration, Partnership, and Innovations in Construction Sciences and Education" (WP5).
- Discussions on the integration of prepared BSc/specialists, MSc and PhD modules in Russian, Ukrainian, Belarusian and other countries' universities (WP2).
- Intelligent Library, the Intelligent Tutoring System and the Intelligent Knowledge Assessment System interuniversity integration (WP3).
- Peer review procedures of the modules (WP4).
- Preparation of the new ERASMUS+ project application.

#### 2. WP3. Training of students

Time allotted | 10/11/2014 09:00–10:30 | Agenda topic Short course | Presenter Prof. Arturas Kaklauskas, Project coordinator

Discussion: Prof. Arturas Kaklauskas presented his lecture on the topic "Application of Intelligent and Biometric Technologies in Construction and Real Estate".

Time allotted | 10/11/2014 11:00–12:00 | Agenda topic Short course | Presenter Assoc. Prof. Zinaida Ivanova

Discussion: Assoc. Prof. Zinaida Ivanova presented her lecture on the topic "Sociological methods for sustainable urban design".

Time allotted | 10/11/2014 12:00–13:00 | Agenda topic Short course | Presenter Prof. Massimo Bianchi

Discussion: *Prof. Massimo Bianchi presented his lecture on the topic "Beyond the Social Network Analysis for sustainable evolution of urban networks. A model of organizational analysis"*.

Time allotted | 10/11/2014 14:00–15:00 | Agenda topic Short course | Presenter Nina Danilina

Discussion: Nina Danilina presented her lecture on the topic "Sustainable urban planning".

Time allotted | 10/11/2014 15:00–16:00 | Agenda topic Short course | Presenter Anatoly Martynenko

Discussion: Anatoly Martynenko presented his lecture on the topic "Smart Built Environment".





Time allotted | 10/11/2014 16:30–17:30 | Agenda topic Short course | Presenter Leonid Maryushin

Discussion: Leonid Maryushin presented his lecture on the topic "Rational use of water resources in the city and water pollution minimization".

Time allotted | 10/11/2014 17:30–17:30 | Agenda topic Short course | Presenter Konstantin Palaguta

Discussion: Konstantin Palaguta presented his lecture on the topic "Smart House".

## AGENDA TOPICS: 2ND MEETING DAY

#### 2. WP3. Training of students

Time allotted | 11/11/2014 09:00–10:00 | Agenda topic Short course | Presenter Emlyn Witt

Discussion: Emlyn Witt presented his lecture on the topic "Construction investments".

Time allotted | 11/11/2014 10:00–11:00 | Agenda topic Short course | Presenter Prof. Valeriy Beley

Discussion: Prof. Valeriy Beley presented his lecture on the topic "Technologies for the use of wind energy".

Time allotted | 11/11/2014 11:15–12:00 | Agenda topic Short course | Presenter Petr Dorokhov

Discussion: Petr Dorokhov presented his lecture on the topic "Improvement of the energy effectiveness of the heating systems".

Time allotted | 11/11/2014 12:00–13:00 | Agenda topic Short course | Presenter V. Gagarin

Discussion: V. Gagarin presented his lecture on the topic "Energy saving and thermal protection of the buildings".

Time allotted | 11/11/2014 14:00–14:30 | Agenda topic Short course | Presenter Assoc. Prof. Volodymyr Prokopenko

Discussion: Assoc. Prof. Volodymyr Prokopenko presented his lecture on the topic "Energy Audit" via Skype.

Time allotted | 11/11/2014 14:30–15:00 | Agenda topic Short course | Presenter Irina Porunkova, Natallia Samoilenko

Discussion: Irina Porunkova and Natallia Samoilenko presented their lecture on the topic "Environmentally sustainable cities development" via Skype.

Time allotted | 11/11/2014 15:00–16:00 | Agenda topic Short course | Presenter Dzimitry Safonchyk

Discussion: Dzimitry Safonchyk presented his lecture on the topic "Building materials based on waste of the Republic of Belarus".





Time allotted | 11/11/2014 16:00–17:00 | Agenda topic Short course | Presenter Assoc. Prof. Nikolai Siniak, Assoc. Prof. Sergey Shavrov

Discussion: Assoc. Prof. Nikolai Siniak, Assoc. Prof. Sergey Shavrov presented their lecture on the topic "Land resources sustainable development".

#### AGENDA TOPICS: 3<sup>RD</sup> MEETING DAY

#### 3. WP5. Dissemination

Time allotted | 12/11/2014 09:00–18:00 | Agenda topic International scientific conference "Integration, Partnership, and Innovations in Construction Sciences and Education"

Discussion: The International scientific conference "Integration, Partnership, and Innovations in Construction Sciences and Education" was held in Moscow State University of Civil Engineering. Project partners participated in the conference.

#### AGENDA TOPICS: 4TH MEETING DAY

#### 4. WP2. Module specifications and teaching materials. WP3. Module integration. WP5. Dissemination

Time allotted | 13/11/2014 09:30–09:45 | Agenda topic Welcome speech | Presenter Assoc. Prof. Zinaida Ivanova, Prof. Arturas Kaklauskas

Discussion: *Welcome speech to the project partners.* 

Time allotted | 13/11/2014 09:45–10:45 | Agenda topic Presentation of the module handbook | Presenter Nina Danilina

Discussion: Prof. Arturas Kaklauskas and prof. Alevtina Balakina discussed how to integrate the presented module to open source system. Additional teaching materials should be collected (videos etc.). Partners are waiting for the links.

Prof. Nikolai Vatin asked what will be the teaching language, the final decision was made – Russian.

After a discussion, what distance methods will be used, the e-materials, videos, games, etc. were decided to add according to VGTU example.

The prepared modules should be integrated to other universities, not only project partners. The TEMPUS project CENEAST module list and proposals for the module sharing was circulated to all project partners. They have to fill it in and send back. Every partner is responsible for its module. The matrix is shown in the Annex II.

Time allotted | 13/11/2014 11:15–11:30 | Agenda topic Module integration | Presenter Prof. Arturas Kaklauskas

Discussion: Prof. Arturas Kaklauskas led the discussion on students training and module integration..

Time allotted | 13/11/2014 11:30–12:15 | Agenda topic Presentation of module handbook | Presenter Prof. Michael Eichner

Discussion: Prof. Michael Eichner presented MGSU activities and the prepared module. The ideas for the module sharing: the presented module could be first integrated in MGSU. As the module is prepared in English, Prof. Irene Lill from TUT agreed that it is possible to integrate it to TUT study programmes. Prof. Alevtina Balakina confirmed that they have a lot of materials in English and German.





Four main things have to be discussed:

- 1. Integration to existing study programmes
- 2. Upload and integration to the Moodle system
- 3 Use of prepared and existing intelligent systems and games
- 4. Possibilities to develop the distance learning without lecturers.

Time allotted | 13/11/2014 12:15–12:40 | Agenda topic Ideas for the further module development | Presenter Prof. Arturas Kaklauskas

Discussion: Prof. Arturas Kaklauskas presented the calculating systems used by best world universities. He proposed to include them to the prepared modules. Another proposal is the integration of best practice to the modules. Video translations of the lectures could be made and used as project results dissemination.

Time allotted | 13/11/2014 12:40–13:30 | Agenda topic Module integration in NTU "KhPI" | Presenter Irina Porunkova

Discussion: Irina Porunkova discussed the application of the modules in practice and their integration in the existing programs for a long-term.

Time allotted | 13/11/2014 16:30–18:00 | Agenda topic Discussion on the new ERASMUS+ project application | Presenter Prof. Arturas Kaklauskas, All

Discussion: Partners decided to continue their collaboration and to prepare the new project application for ERASMUS+ call on the topic Built Environment, Climate Change and Disaster Resilience. The deadline for the application is 10/02/2015. Distribution of the tasks:

- 1. Cosmic technologies MSIU
- 2. Climate Change
- 3. Big Data and Text Analytics Russian and Ukrainian universities
- 4. Quality Control Tallin University of Technology
- 5. Project Management
- 6. Budget and effectiveness
- 7. Rationality
- 8. Climate change and disasters Moscow Universities
- 9. Partner role in the project every institution is responsible for its role and input to the project
- 10. Target Groups: Engineers, BSc, MSc, PhD students
- 11. Sustainability responsible university SPbSPU, Elena Nikonchuk
- 12. Indicators responsible university VGTU
- 13. Sort term results / Long term results
- 14. Dissemination Responsible universities NTU "KhPI", NTUU "KPI", SPbSPU
- 15. Open access
- 16. WP distribution: Implementations; Upgrading (UoH); Evaluation; Monitoring (KSTU, TUT).

The application form will be sent to all the partners. Partners should decide and invite the associations form Germanym, Russia and Estonia to participate in the new project.

Main tasks: to prepare the summary and choose the priorities, to decide who will prepare the application and who will be the project coordinator.

#### General Conclusions:

• The prepared modules should be integrated to other universities, not only project partners. The TEMPUS project CENEAST module list and proposals for the module sharing was circulated to all project partners (Annex II). They have to fill it in and send back until the next project meeting.





- Four main things have to be decided concerning the newly developed modules:
- 1. Integration to existing study programmes.
- 2. Upload and integration to the Moodle system.
- 3 Use of prepared and existing intelligent systems and games.
- 4. Possibilities to develop the distance learning without lecturers.
- All partners have to send their **Peer review reports** of the modules.
- The tasks for the new project application were distributed. The prepared materials and further steps of the project application will be discussed via e-mail and during the next meeting.
- Next project meeting will be held in Moscow State Industrial University on 22<sup>nd</sup>-23<sup>rd</sup> January 2015.

#### CURRENT ACTIVITIES ACCORDING TO THE PROJECT WORKPLAN:

																		Mo	onth														
WP Type	Delivera ble / Activity Ref. N°	Activities (as indicated in the LFM)	Dura- tion (weeks)	2012.10.01	2012.11.01	2012.12.01	2013.01.01	2013.03.01	2013.04.01	2013.05.01	2013.06.01	2013.07.01	2013.09.01	2013,10.01	2013.11.01	2013.12.01	2014-01.01	2014.03.01	2014.04.01	2014.05.01	2014.06.01	2014.07.01	2014.09.01	2014.10.01	2014,11.01	2014.12.01	2015.01.01	2015.03.01	2015.04.01	2015.05.01	2015.06.01	2015.08.01	2015.09.01
MNGT	1.1.	Development of communication infrastructure		0	X (	o	X C	X											X													П	O
MNGT	1.2.	Continual management and reporting			•	o	X C	X	o	X	0	X (	o x	o	X	0 2	X C	) X	0	X	0	X C	) X	O	$\mathbf{X}$	O	X O	X	О	X (	o x	O	X
DEV	2.1.	The framework report for the common curricular			X	o	X C	X	o	X																							
DEV	2.2.	Report on common grounds for teaching and learning						X	o	X	o	X																					
DEV	2.3.	Module specifications and teaching materials											x o																				
EXP	3.1.	Development of e-interuniversity networked system					X C	X					o x					) X	0	X	0												
EXP	3.2.	Development of the virtual research environment							X	O	X	0	x o	X	О	X (	)																
EXP	3.3.	Training, lecturing and guest visits																			_	o c	0	0									
EXP	3.4.	Training of students																						X	$\mathbf{X}$	X	X X	X	X	X	X X	X	X
QPLN	4.1.	Report on internal CENEAST monitoring results			3	X	o y	O	X	o	X	0	x o															Ш		Ш			
QPLN	4.2.	Report on external CENEAST monitoring results												X	o	X (	) 3	O	X	o	X (	0 2	K O	X	O	X	O X	O	X	0	X C	) X	O
QPLN	4.3.	Analyses and recommendations																						X	O	X	O X	0	X	0	X C	) X	O
DISS	5.1.	Dissemination through branch organizations																									_	_		0	_		_
DISS	5.2.	Dissemination through international conferences																									Х	O	X	0	X C	) X	O
DISS	5.3.	Dissemination through websites																									X	0	X	0	X C	) X	O
DISS	5.4.	Printed dissemination material																													X O	) X	O

#### **NEXT MEETINGS:**

10th Meeting: 22nd - 23rd January 2015, Moscow, Russia

11th Meeting: 18th – 20th March 2015, Saint Petersburg, Russia

12<sup>th</sup> Meeting: Grodno, Belarus 13<sup>th</sup> Meeting: Huddersfield, UK





### ANNEX I: 9TH MEETING AGENDA

# Tempus Project CENEAST: Reformation of the Curricula on Built Environment in the Eastern Neighbouring Area

# 9th PROJECT MEETING AGENDA

Moscow State University of Civil Engineering (MGSU)

Time / Location	Content	Chairman/ Speaker						
Location	Monday, November 10, 2014							
	Venue: MGSU, 26, Yaroslavskoye shosse							
Short course:	"Principles of sustainable growth under formation of living environm							
	urban planning, engineering and social and humanitarian aspects", I							
9.00 - 10.30	Application of Intelligent and Biometric Technologies in	Kaklauskas A.						
	Construction and Real Estate	(VGTU)						
10.30 - 11.00	Coffee Break							
11.00 - 12.00	Sociological methods for sustainable urban design	Ivanova Z.						
12.00 12.00		(MGSU)						
12.00 - 13.00	Beyond the Social Network Analysis for	Bianchi M.						
	sustainable evolution of urban networks. A	(Universitet						
12.00 14.00	model of organizational analysis.	Bolonga)						
13.00 - 14.00	Lunch Break							
14.00 - 15.00	Sustainable urban planning	Danilina N.						
		(MGSU)						
15.00 - 16.00	Smart Built Environment	Martynenko I.						
		(MSIU)						
16.00 - 16.30	Coffee Break							
16.30 - 17.30	Rational use of water resources in the city and water pollution	Marjushin L.						
	minimization	(MSIU)						
17.30 - 18.30	Smart House	Palaguta K. (MSIU)						
	Tuesday, November 11, 2014 Venue: MGSU							
Short course:	"Principles of sustainable growth under formation of living environment	ent in architectural,						
	urban planning, engineering and social and humanitarian aspects", I							
09.00 - 10.00	Construction investment	Witt E. (TTU)						
10.00 - 11.00	Technologies for the use of wind energy	Beley V. (KSTU)						
11.00 - 11.15	Coffee Break							
11.15 - 12.00	Improvement of the energy effectiveness of the heating systems	Dorohov P. (KSTU)						
12.00 - 13.00	Energy saving and thermal protection of the buildings	Gagarin V. (MGSU)						
13.00 - 14.00	Lunch Break							
14.00 - 15.30	Building materials based on waste of the Republic of Belarus	Safonchyk D.						
		(YKSYG)						
15.30 - 17.00	Land resources sustainable development	Siniak N., Shavrov						
		S. (BGTU)						
	Wednesday, November 12, 2014							





	Venue: MGSU								
International	International scientific conference "Integration, Partnership, and Innovations in Construction								
	Sciences and Education"	ı							
09.00	Transfer from Cosmos Hotel	110011							
09.30 - 10.00	Registration of the conference participants.	MGSU							
10.00 - 10.30	Opening ceremony.	All							
10.30 - 12.30	Plenary session.	All							
12.30 – 13.30 13.30 – 18.00	Lunch Break Work of the conference sections.								
13.30 - 18.00		All							
	Section 1: Architecture and town planning.								
18.00 – 20.00	Dinner. Informal discussion of the Conference.								
	Thursday, November 13, 2014 Venue: MGSU								
08.30	Transfer from Cosmos Hotel								
09.00 – 10.30	WP2: Module specifications and teaching materials.								
	Possibilities to integrate the prepared BSc/specialists, MSc and	A 11							
	PhD modules in Russian, Ukrainian, Belarusian and other	All							
	countries' universities.								
10.30 - 11.00	Coffee Break								
11.00 - 13.00	WP2: Module specifications and teaching materials.								
	Possibilities to integrate the prepared BSc/specialists, MSc and								
	PhD modules in Russian, Ukrainian, Belarusian and other	All							
	countries' universities.								
13.00 - 14.00	Lunch Break								
14.00 – 15.30	WP3. Development of e-interuniversity networked system.								
	Possibilities of the Intelligent Library, the Intelligent Tutoring	VGTU,							
	System and the Intelligent Knowledge Assessment System	All							
	inter-university integration.								
15.30 – 16.00	Coffee Break								
16.00 - 17.00	WP3. Development of e-interuniversity networked system.								
10.00 - 17.00	Integration of the BSc/specialists, MSc and PhD modules to the	VGTU,							
	Intelligent Systems.	All							
17.00 - 19.00	Free time								
19.00 - 22.00	Dinner. Informal discussion of project issues.								
	Friday, November 14, 2014. Venue: MGSU								
08.30	Transfer from Cosmos Hotel								
9.00 – 10.30	WP4. Monitoring and Reporting of Results. Peer review	All							
	procedures of the modules.	7111							
10.30 - 11.00	Coffee Break								
11.00 – 13.00	MGSU tour	All							
13.00 – 14.00	Lunch Break								
14.00 – 15.30	Discussion about the Erasmus+ program possibilities.	All							
15.30 – 16.00	Discussion and actions for the next meeting. General summing up. Closing of the meeting.	All							





## **ANNEX II: MODULE SHARING**

## TEMPUS project CENEAST module list and proposals for the module sharing

Module	Responsible University	Module Specifications in Russian	Module Specifications	Handbook	In which university will be integrated	Teaching method
		ın Kussian	in English			
			BSc			
Renewable Energy	KSTU with	+	+	+		
	NTUU "KPI"	RU	EN	RU		
Energy Efficiency in Engineering	KSTU with	+	+	+		
Systems	NTUU "KPI"	RU	EN	RU		
Energy Audit	NTUU "KPI"	+	+	+		
		RU	EN	RU		
Construction Materials for	YKSUG	+	+	+		
Sustainable Built Environment		RU	EN	RU		
Sustainable Urban Design	MGSU	N/A	+	+		
			EN	RU		
Green Built Environment	MGSU	+	+	+		
		RU	EN	EN		
Energy Efficiency in Built Environment (deleted)	MSIU	-	-	-		
Advanced construction	SPbSPU	+		+		
technologies for energy efficient buildings		RU		RU, teaching		





				materials	
				missing	
Project management in	SPbSPU	+		+	
construction and construction site		RU		RU,	
management				teaching	
				materials	
				missing	
			MSc		
Environmentally sustainable cities	NTU "KhPI"	+	+	+-	
development	with NTUU	RU	EN		
	"KPI", MSIU and VGTU				
Green Built Environment	MGSU	+	+	+	
		RU	EN	EN	
			EIN	EIN	
Sociological methods used for	MGSU with	N/A	+	+	
sustainable urban development	UNIBO and TUT		EN	RU	
Human safety, natural and	NTUU "KPI"			-	
technogenic problems in the 21st	with USAL,				
century	NTU "KhPI" and SPbSPU				
Building Information Modeling	SPbSPU	+		-	
(additional)		RU			
Sustainable Real Estate Market	BSTU	N/A	+	+	
Development (additional)			EN	RU,	
				preliminary	
Smart House	MSIU	+		+	
		RU			





				RU, teaching materials missing	
Smart Built Environment	MSIU	+ RU		+ RU, teaching materials missing	
Construction Investments	TUT	+ RU	+ EN	+ EN	
Restoration of Cultural Heritage (additional)	V. Kutut	+ RU	N/A	N/A	
Introduction to Specialty (additional)	V. Bolshakov	+ RU	N/A	N/A	
			PhD		
Integrated analysis of the built environment life cycle	VGTU with BSTU	+ RU	+ EN	+ RU	
Resilience Management (additional)	USAL	-	+ EN	+ EN	

Ideas for the module sharing (with TEMPUS partners, with universities not involved in TEMPUS project, personal contacts, distance learning possibilities, etc.)



