Co-funded by the Erasmus+ Programme of the European Union

Deliverable 5.5.

ClimEd Training №5: Applying Different Technologies of Blended/Online Learning in Education

Grant Agreement No.	619285-EPP-1-2020-1-FI-EPPKA2-CBHE-JP
Project acronym	ClimEd
Project full title	Multilevel Local, Nation- and Regionwide Education and Training in Climate Services, Climate Change Adaptation and Mitigation
Dissemination level	International
Contributing WP(s)	WP5. Staff training
Due date of deliverable	15.10.2024
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Version	1
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Reviewer(s)	Svyatoslav Tyuryakov (UHEL)
Abstract	Summary of the 5th ClimEd Training on "Applying Different Technologies of Blended/Online Learning in Education" (30 Sep – 4 Oct 2024). All materials of the training are available at: http://climed.network/events/climed-trainings/climed-training-5

	Name	Date
Verification by WP leader	Alexander Mahura	20.10.2024
Check by coordinator	Hanna K. Lappalainen	25.10.2024

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1. INTRODUCTION

The ClimEd project "**Multilevel Local, Nation- and Regionwide Education and Training in Climate Services, Climate Change Adaptation and Mitigation**" (2021-2026; http://climed.network) is developing the competency-based curricula for continuous comprehensive training of specialists in the field of climate services in Ukraine, as well as initiating and developing the additional education in climate change for decision-makers, experts in climate-dependent economic sectors and wider public, which are to contribute to stabilization of the national economy in the face of the climate change and its adaptation to the upcoming climate change.

The ClimEd Trainings (http://climed.network/events/climed-trainings) are focused on training the faculty/ teaching/ research staff and postgraduates at the ClimEd partner institutions and collaborating organizations in advanced educational and information-and-communication technologies for building a flexible multi-level integrated practice-based education system in the field of Climate Services, Climate Change Adaptation and Mitigation.

In total, 7 trainings (Tr) are planned during lifetime of the ClimEd project, and these are the following:

- Tr1: Competency-Based Approach to Curriculum Development for Climate Education
- Tr2: Adaptation of the Competency Framework for Climate Services to conditions of Ukraine
- Tr3: Digital tools and datasets for climate change education
- Tr4: Learning courses' development in climate services considering needs of different users
- Tr5: Applying different technologies of blended/on-line learning in education
- Tr6: Mastering technologies of massive open on-line courses development for general public
- Tr7: Skills to use climatic information and services for climate-dependent branches of economy.

2. THE 5TH CLIMED TRAINING: APPLYING DIFFERENT TECHNOLOGIES OF BLENDED/ONLINE LEARNING IN EDUCATION

The ClimEd 5th Training on "ClimEd Training N5: Applying Different Technologies of Blended/Online Learning in Education" took place in hybrid mode during 30 Sep – 4 Oct 2024.

In total, 34 persons (including 31 female and 3 male; and 6 young teachers/researchers) were accepted to participate in this onsite/online (hybrid) training. These were from the Ukrainian ClimEd partners and other institutions such as the Odesa I.I. Mechnikov National University, Kyiv National University of Construction and Architecture, O. Beketov National University of Urban Economy, Lviv Polytechnic National University, Bila Tserkva National Agrarian University, Taras Shevchenko National University of Kyiv, V. N. Karazin Kharkiv National University, National University Odessa Maritime Academy.

The training included a series of lectures delivered during 30 Sep – 3 Oct 2024. The Lecturing Blocks (B1, B2, B3, B4) were as follows:
B1 (Monday, 30 Sep 2024 – Foundations of Climate Education and Technology Integration. Understanding climate education through advanced educational technologies, examining climate policy and objectives, and how blended and online learning can enhance teaching effectiveness.
B2 (Tuesday, 1 Oct 2024) – Designing Engaging Blended Learning Experiences for Climate Topics. Featuring practical workshops on creating effective blended learning strategies and planning modules.
B3 (Wednesday, 2 Oct 2024) – Developing and Assessing Online Exams for Climate Education. Mastering Moodle to create online exam questionnaires, equipping educators with the skills to design,

deliver, and assess blended learning experiences.
B4 (Thursday, 3 Oct 2024) – Advancing Climate Education via Online Platforms. Reinforcing blended learning strategies through participant presentations, critical review, collaborative feedback, and discussions on deploying online tools to enhance climate education.

The lectures were delivered by Dr. Jon Xavier Olano, Dr. Enric Aguilar, Dr. Anna Boqué and PhD Caterina Cimolai (Universitat Rovira i Virgili, Spain); Prof. Kalev Sepp; MSc Peep Mardiste, Educational technologist Veljo Kabin (Estonian University of Life Sciences, Estonia); Dr. Tuukka Petäjä, Dr. Laura Riuttanen, Dr. Risto Makkonen (Institute for Atmospheric and Earth System Research (INAR), Department of Physics, University of Helsinki, Finland), Prof. Tetiana Tkachenko (Kyiv National University of Construction and Architecture, Ukraine).

During 1-3 Oct 2024, the Groups'/ teams' work included: (1) Practical Workshop: "Designing Engaging Blended Learning Experiences for Climate Topics"; 2) Group Work Session: "Planning Your Blended Learning Module for Climate Topics"; and (3) Group Work Session: "Developing Exam Questionnaires for the Moodle Environment for Climate Change educational programs".

All the participants of the training had realized onsite and remotely own small-scale research projects (SSRPs). Each mixed group included several persons – from different Universities, genders, and age. In total, 8 Groups (E1-E8) focused on the themes mastering Moodle for creating online exam questionnaires to arm educators with the expertise to design, deliver, and assess blended learning experiences. Main goal for each Group was developing Exam Questionnaires for the Moodle Environment for Climate Change educational programs. The Groups established horizontal communication within/between groups and worked on own related Group Projects.

On 3rd Oct 2024, during the last day of the training, the 8 Groups of participants presented own completed projects: E1 "Assessment of city vulnerability to climate change"; E2 "Greenhouse Gases and their influence on modern climate change"; E3 "Using advanced technologies in Moodle using the example of programs for studying the impact of climate change on agriculture"; E4 "A detailed guide on the assessment criteria for test tasks on the topic 'Climate Change Mitigation"; E5 "The best tools for online learning and assessment are applied to the discipline of Paleoclimatology"; E6 "The Role of Climate Services in Adaptation Planning"; E7 "Developing Exam Questionnaires for Online Learning on the Impact of Climate Change on Natural Hazards – Floods"; E8 "Climate Services, Adaptation to Climate Change, and Mitigation of Its Effects". All presentations were constructively discussed, evaluated, criticized and commented as well as overall evaluated on a scale (1-10). As a result of the evaluation, the ClimEd training certificates (corresponding to 3 ECTS) were awarded as recognition of participants' achieved learning outcomes.

All Groups got high scores, and, respectively, have been awarded the certificates and invitations for the ClimEd 6th Training (expected in Jan-Feb 2025 as onsite/online (hybrid) training in Estonia). It was stressed that participants of the training had obtained an understanding of climate education through advanced educational technologies, examining climate policy and objectives, and how blended and online learning can enhance teaching effectiveness. The training was combined with interesting social activities, which all participants enjoyed, such as a tour of the laboratories at the Estonian University of Life Sciences, featuring one of the richest entomological collections in Europe. Moreover, on the last day of the training, a field trip to Lahemaa National Park known for its diverse flora and fauna, as well as its raised bogs was organized by the EULS team.

The e-evaluation of the ClimEd 5th Training was done using two questionnaires distributed among participants. Following the 1st questionnaire – (Evaluation of the Training) – 100% of the participants estimated overall rating for this course as" very good" and "good"; training materials were of

"excellent" (75%), and "very good" (25%) quality and information about the training was sufficient (100%), and participants will recommend such training to colleagues (100 %). Following the 2nd questionnaire – (Self-Evaluation of the Obtained Competencies and Skills) – about 98% of participants "fully agreed" and "mostly agreed" that they have obtained/ improved their competencies and got skills working as groups.
Special thanks to all the lecturers and teachers of the training for their professionalism, enthusiasm, and commitment to the training and the EULS team members – Dr. Kalev Sepp; Dr. Volha Kaskevich, Educational technologist Veljo Kabin and MSc Peep Mardist - for the excellent organization and warm atmosphere during the training; and to the ONU team members (Dr. Valeriya Ovcharuk, Dr. Inna Khomenko, Dr. Nataliya Bulat, and IT-manager Vladimir Andrusenko) for continuous technical support (e-evaluations, training web-page continuous updates with training materials, for support with ClimEd relevant training preparation, etc.) during the entire period of the training.
All materials of the training (slides and videos of lectures, presentations of exercises, and homework-assignments as group projects, etc.) are available at http://climed.network/events/climed-trainings/climed-training-5/ The training outcomes were also disseminated through the PEEX (Pan-Eurasian Experiment; https://www.atm.helsinki.fi/peex) network through quarterly PEEX NewsLetters & PEEX blog (maintained by UHEL): https://peexhq.home.blog/2024/10/16/climed-5th-training-applying-different-technologies-of-blended-online-learning-in-education .

2.1. Lecturing Materials

During the 5th ClimEd Training, in total 8 lectures were delivered.
Lecture 1 – "Climate Policy, Objectives, and Options, Impact to Climate Change" by Peep Mardiste (Estonian University of Life Sciences - EULS, Estonia)
Lecture 2 – "Advanced Techniques in Moodle to enhance climate education. Session on creation of interactive online courses, emphasizing the use of multimedia content, discussion forums, and feedback mechanisms" by Veljo Kabin (EULS, Estonia) (link to video)
Lecture 3 – "Adaptation to Climate Change by Green Structures" by Professor Tetyana Tkachenko (Kyiv National University of Construction and Architecture - KNUCA, Ukraine) (link to video)
Lecture 4 – "Blended/Online Learning in Education: An Introduction" by Veljo Kabin (EULS, Estonia) (link to slides, link to video)
Lecture 5 – "Designing entering online exam using Moodle for climate change and adaptation programs" by Veljo Kabin and Kalev Sepp (EULS, Estonia)
Lecture 6– "Moodle course presentation on creating tools for capacity building on the generation of weather-based crop calendars to support climate services" by Dr Jon Xavier Olano Pozo (Universitat Rovira i Virgili -URV, Spain) (link to video)
Lecture 7– "Innovative Educational Technologies for Climate Education by Laura Riuttanen (Institute for Atmospheric and Earth System Research (INAR), Department of Physics, University of Helsinki - UHEL, Finland) (link to video)
Lecture 8– "Modeling for Climate and Environmental Research by Risto Makkonen (INAR, UHEL, Finland) (link to video)

2.2. Group Work / Group Projects

During the 5th ClimEd training the Groups'/ teams' work included practical workshop on "Designing Engaging Blended Learning Experiences for Climate Topics" and 2 group work sessions - "Planning Your Blended Learning Module for Climate Topics" and "Developing Exam Questionnaires for the Moodle Environment for Climate Change educational programs". All the participants of the training had realized onsite and remotely own small-scale research projects (SSRPs). Work in Groups on

projects was realized by each group as its own projects. The main focuses for SSRPs were developing examples of practical exercises for strategies that combine online and traditional teaching methods to enhance climate education. Practical workshops provided them with hands-on experience in creating interactive learning modules on climate topics. Additionally, participants mastered the use of Moodle for developing online exam questionnaires, enabling them to effectively assess blended learning experiences.

2.3. Group Work, Projects Defenses & Certificates

Welcome – Dr. Kalev Sepp (EULS) & Svyatoslav Tyuryakov (UHEL).

On the 4th day of the training week (3 Oct 2024), each Group presented (in English) Group Work as its own realized SSRPs with a specific focus. The presentations – Group E01 (link to video), Group E02 (link to video), Group E03 (link to video), Group E04 (link to video), Group E05 (link to video), Group E06 (link to video), Group E07 (link to video), Group E08 (link to video) were constructively criticized and commented as well as overall evaluated on a scale (1-10). As the result of the evaluation, all Groups got the ClimEd training certificates (see example in Annex 4.3) corresponding to 3 ECTS as recognition of their achieved learning outcomes.

The following Small-Scale Research Projects (SSRPs) were presented and defended by 8 Groups:

- E1 “Assessment of city vulnerability to climate change”;
- E2 “Greenhouse Gases and their influence on modern climate change”;
- E3 “Using advanced technologies in Moodle using the example of programs for studying the impact of climate change on agriculture”;
- E4 “A detailed guide on the assessment criteria for test tasks on the topic 'Climate Change Mitigation”;
- E5 “The best tools for online learning and assessment are applied to the discipline of Paleoclimatology”;
- E6 “The Role of Climate Services in Adaptation Planning”;
- E7 “Developing Exam Questionnaires for Online Learning on the Impact of Climate Change on Natural Hazards – Floods”;
- E8 “Climate Services, Adaptation to Climate Change, and Mitigation of Its Effects”.

The Obtained Competencies and Learning Outcomes (OC&LO) of the 5th ClimEd training included the following:

- Capability to integrate emerging technologies into climate education by understanding their impact on policy and educational practices#1;
- Mastery of tools like Moodle for online exam design and assessment#2;
- Development of online modules for climate education, focusing on strategies for advancing education #3;
- Planning and preparation of blended learning modules for climate topics #4;
- Application of advanced techniques in Moodle for interactive online climate education#5;

All the participants received approval for participation in the ClimEd 6th Training event in Estonia.

2.4. Evaluation of the Training

The evaluation of the training was performed through the questionaries ("Evaluation of the Course" & "Evaluation of the Learning Outcomes") distributed among participants. For the questionaries, in total 20 and 18 responses from the participants were obtained for the 1st and 2nd questionaries, and these are summarized below.

Following the 1st questionnaire – (Evaluation of the Training) –100% of the participants "strongly agreed" and "agreed" that the lecturers were supportive, that both the training materials and their delivery were excellent, that information about the training was sufficient, so that participants would recommend such training to colleagues.

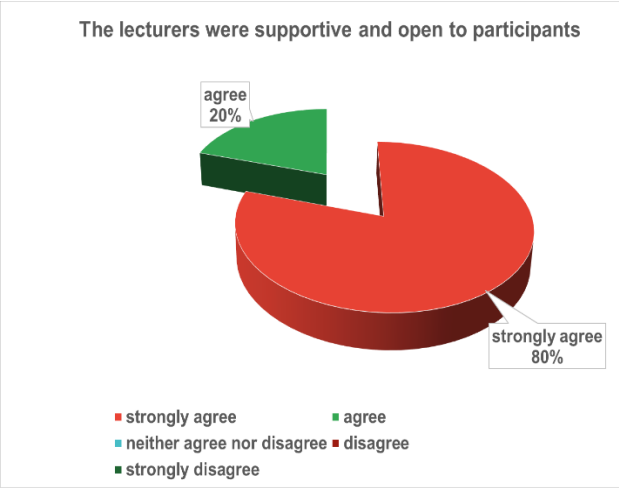
Following the 2nd questionnaire – (Self-Evaluation of the Obtained Competencies and Skills) – the participants "fully agreed" and "mostly agreed" that they have obtained/ improved their competencies and got skills working as groups.

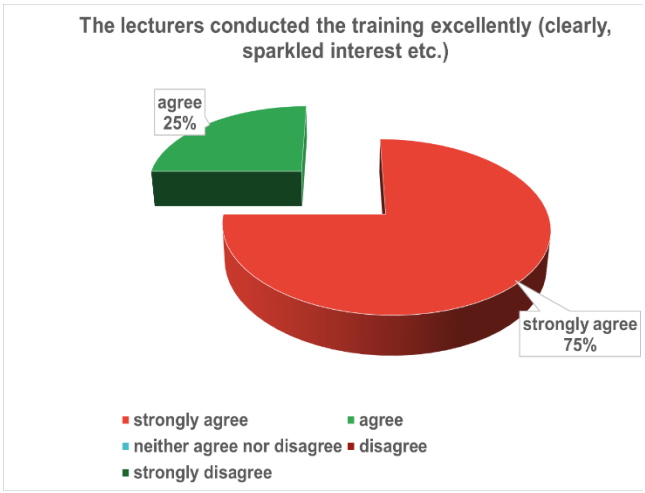
Questionnaire N1: Evaluation of the Course:

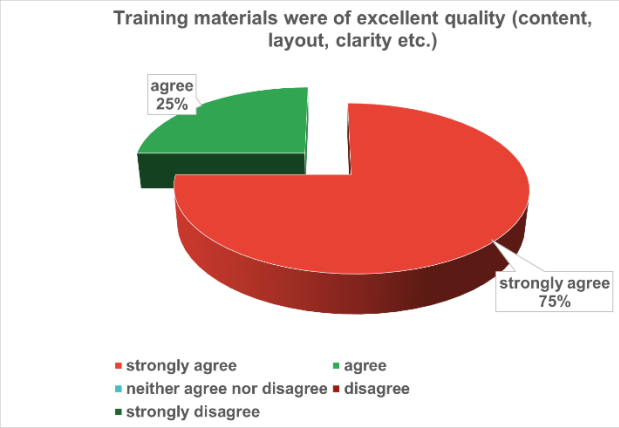
Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree

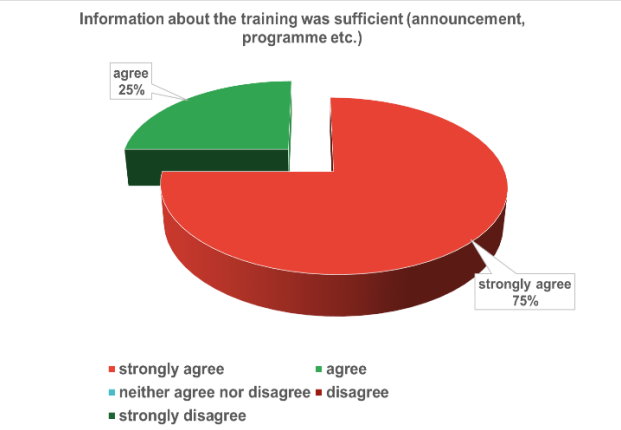
1. The lecturers were supportive and open to participants
2. The lecturers conducted the training excellently (clearly, sparkled interest etc.)
3. Training materials were of excellent quality (content, layout, clarity etc.)
4. Information about the training was sufficient (announcement, programme, etc.)
5. I will recommend such training to my colleagues

Question	1	2	3	4	5	AVG, %
strongly agree	*16*	*15*	*15*	*15*	*18*	*79*
agree	*4*	*5*	*5*	*5*	*2*	*21*
neither agree nor disagree	-	-	-	-	-	
disagree	-	-	-	-	-	
strongly disagree	-	-	-	-	-	







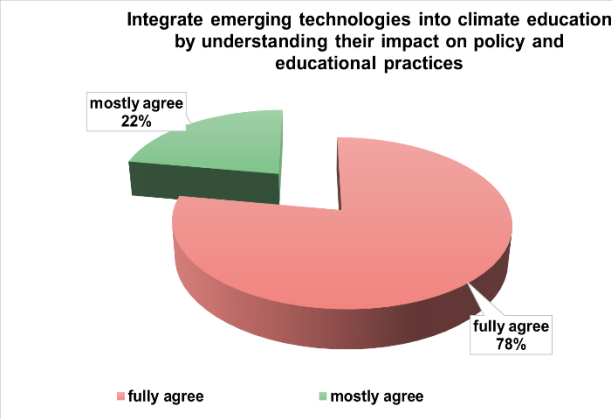


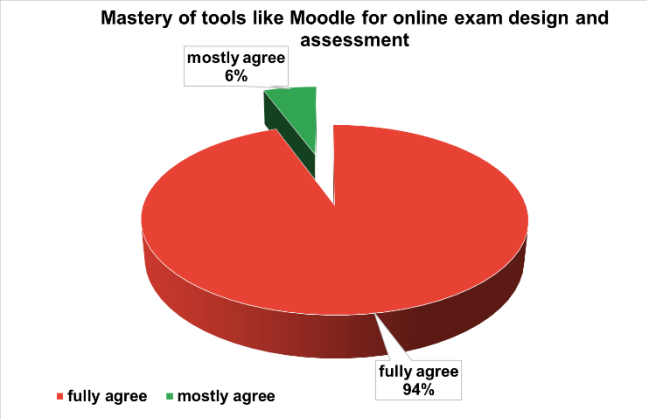
Questionnaire N2: Evaluation of the Learning Outcomes (LOs):

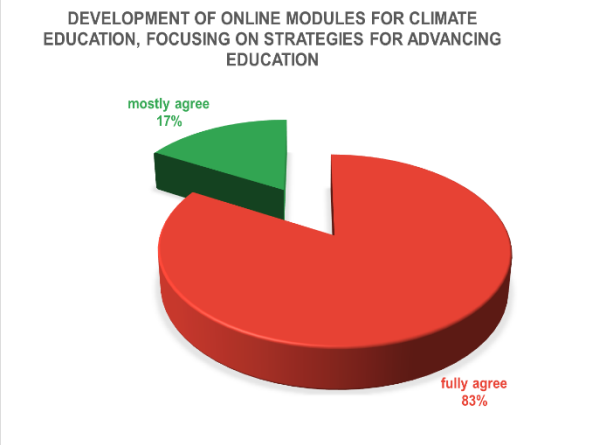
To which extent do you think that you developed the learning outcomes (competences/ abilities to) of the 5th ClimEd training?
Scale: not at all | slightly | somewhat/to some extent | mostly agree | fully agree

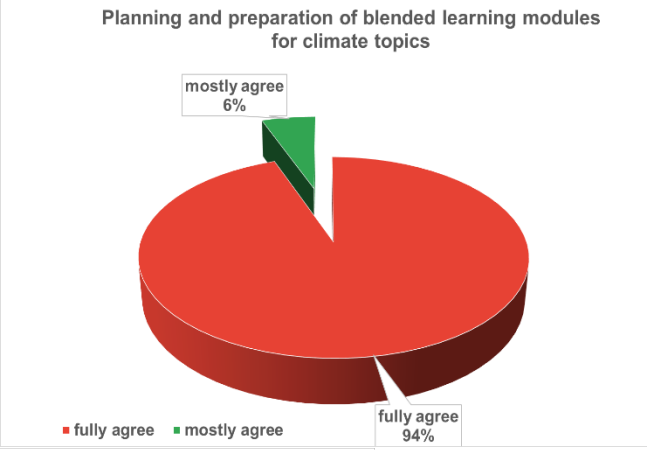
1. Integrate emerging technologies into climate education by understanding their impact on policy and educational practices
2. Mastery of tools like Moodle for online exam design and assessment
3. Development of online modules for climate education, focusing on strategies for advancing education
4. Planning and preparation of blended learning modules for climate topics
5. Application of advanced techniques in Moodle for interactive online climate education

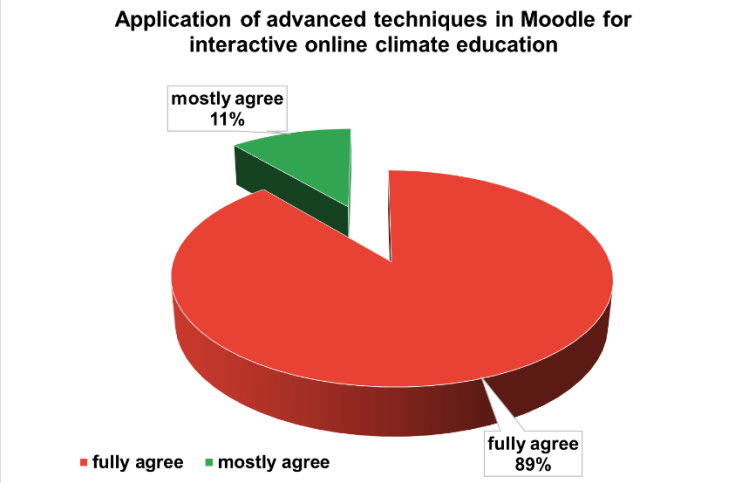
Learning Outcomes	1	2	3	4	5	6
fully agreed	14	17	15	17	16	14
mostly agreed	4	1	3	1	2	4
somewhat/to some extent	0	0	0	0	0	0
slightly	0	0	0	0	0	0
not at all	0	0	0	0	0	0











3. ACKNOWLEDGEMENTS

Special thanks to all lecturers of the training – MSc Peep Mardiste, Educational technologist Veljo Kabin, Dr. Kalev Sepp (from Estonian University of Life Sciences, Estonia) Dr. Jon Xavier Olano, Dr. Enric Aguilar, Dr. Anna Boqué and PhD Caterina Cimolai (from Universitat Rovira i Virgili from Spain); Dr.Tuukka Petäjä, Dr. Laura Riuttanen, Dr. Risto Makkonen (Institute for Atmospheric and Earth System Research (INAR), Department of Physics, University of Helsinki, Finland), Prof. Tetiana Tkachenko (Kyiv National University of Construction and Architecture, Ukraine) – for their professionalism, enthusiasm, and commitment to the training; and EULS team – Dr. Kalev Sepp; Dr. Volha Kaskevich, and Educational technologist Veljo Kabin - for excellent organization and warm atmosphere during the training. Thanks to the ONU team members (Dr. Valeriya Ovcharuk, Dr. Inna Khomenko, Dr. Nataliya Bulat, and IT-manager Vladimir Andrusenko) for support with ClimEd relevant modules development; e-evaluations; continuous web-update of the training materials.

All materials of the training (slides and videos of lectures, presentations of exercises and homework assignments as group projects, etc.) are available at http://climed.network/events/climed-trainings/climed-training-5.

Results of the ClimEd Trainings were also presented at:

- International Research-To-Practice Conference "Climate Services: Science and Education" (*22-24 September 2021, Odessa, Ukraine*) oral presentation "Online Approaches for Climate-Oriented Education" in section "Education in Climate Services" https://odeku.edu.ua/wp-content/uploads/2021-a-conference_proceedings-21-09-isbn.pdf;
- Eastern Mediterranean & Middle East – Climate Atmosphere Research Center Workshop *(11-12 October 2021, Cyprus)*; oral presentation "Climate-related education: on-line approach in COVID times" in section "Education and Training Opportunities"; https://climatechange2021.org/wp-content/uploads/Book-of-Abstracts_Virtual Workshop_AC0710-js1.pdf;
- SYMET-14 "Education and Training in a Period of Rapid Change" (*22-25 November 2021, Switzerland*); poster presentation "Online trainings in climate-oriented education"; https://symet-14.virtualpostersession.org.
- European Geosciences Union (EGU) General Assembly 2022 (May 2022); oral presentation "Climate-Oriented Trainings in the Field of Climate Services, Climate Change Adaptation and Mitigation"; https://meetingorganizer.copernicus.org/EGU22/EGU22-4895.html; *Ovcharuk, V., Mahura, A., Kryvomaz, T., Aguilar, E., Olano, J., Khomenko, I., Shabliy, O., Sogacheva, L., Zhou, P., Mäkelä, A., Krakovska, S., Lappalainen, H., Stepanenko, S., Lauri, K., Riuttanen, L., Tyuryakov, S., and Bashmakova, I.: CLIMATE-ORIENTED TRAININGS in the field of Climate Services, Climate Change Adaptation and Mitigation, EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-4895, https://doi.org/10.5194/egusphere-egu22-4895, 2022.*
- The International Conference on Regional Climate-CORDEX 2023 (ICRC-CORDEX 2023) was held 25-29 of September 2023 in Trieste, Italy; pico-presentation "*Development of Multilevel Local, Nation- and Regionwide Education and Training in Climate Services in Ukraine" https://icrc-cordex2023.cordex.org/*
- *ACCC-FASN Science Conference 11-12 Nov 2024. CLIMED: CLIMATE-ORIENTED TRANINGS. A. Mahura, V. Ovcharuk, T. Kryvomaz, E. Aguilar, J. Olano, I. Khomenko, O.Shablii, V. Kaskevich, S. Kalev, V. Kabin, H.K. Lappalainen, L. Riuttanen, S. Tyuryakov https://en.ilmatieteenlaitos.fi/accc-fasn2024*

4. ANNEXES

4.1. Announcement of the 5th ClimEd Training

Blended/Online Learning for Climate Change: Bridging Theory, Technology, and Practical Application

ClimEd 5th Training (onsite/hybrid)

September 30–October 4, 2024
Tartu, Estonia

ANNOUNCEMENT

Erasmus+ ClimEd Project

"Multilevel Local, Nation- and Regionwide Education and Training in Climate Services, Climate Change Adaptation and Mitigation"
(619285-EPP-1-2020-1-FI-EPPKA2-CBHE-JP)
http://climed.network

Co-funded by the Erasmus+ Programme of the European Union

Aim

The ClimEd Trainings are focused on training the faculty staff at the ClimEd partner institutions in advanced educational and information-and-communication technologies for building a flexible, multi-level, integrated, practice-based education system in the field of Climate Services, Climate Change Adaptation and Mitigation.

Training Programme

Lecturing (Blocks - B1, B2, B3, B4)

B1 (Mon) – Foundations of Climate Education and Technology Integration. Understanding climate education through advanced educational technologies, examining climate policy and objectives, and how blended and online learning can enhance teaching effectiveness.

B2 (Tue) – Designing Engaging Blended Learning Experiences for Climate Topics. Featuring practical workshops on creating effective blended learning strategies and planning modules.

B3 (Wed) – Developing and Assessing Online Exams for Climate Education. Mastering Moodle to create online exam questionnaires, equipping educators with the skills to design, deliver, and assess blended learning experiences.

B4 (Thu) – Advancing Climate Education via Online Platforms. Reinforcing blended learning strategies through participant presentations, critical review, collaborative feedback, and discussions on deploying online tools to enhance climate education.

Groups'/ teams' work (Tue-Thu)

Practical Workshop: "Designing Engaging Blended Learning Experiences for Climate Topics."

Group Work Session: "Planning Your Blended Learning Module for Climate Topics."

Group Work Session: "Developing Exam Questionnaires for the Moodle Environment for Climate Change educational programs."

Groups'/ teams reporting (Thu)

– Groups' presentations and discussions.
– Evaluations of group, training course, and learning outcomes of the training
– Awarding e-certificates

Organizing Committee

Kalev Sepp, Volha Kaskevich, Anton Shkaruba, *Estonian University of Life Sciences, Tartu, Estonia.*
Hanna Lappalainen, Svyatoslav Tyuryakov, Alexander Mahura, *University of Helsinki, Helsinki, Finland.*
Tetyana Kryvomaz, *Kyiv National University of Construction and Architecture, Kyiv, Ukraine*.
Sergiy Stepanenko, **Oleg Shabliy, Inna Khomenko, Valeriya Ovcharuk**, *Odesa State Environmental University, Odesa, Ukraine*.

Lecturers

Peep Mardiste, Environmental Politics and International Climate Policy (*Chair of Environmental Protection and Landscape Management, Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences, Estonia)*. Lecture on "Climate Policy, Objectives, and Options, Impact on Climate Change" and WS on "Designing Engaging Blended Learning Experiences for Climate Topics."

Tuukka Petäjä, Physical and Atmospheric Sciences *(Institute for Atmospheric and Earth System Research (INAR), Department of Physics, University of Helsinki, Finland).* Lecture on "Advanced Techniques in Atmospheric and Earth System Research."

Laura Riuttanen, Climate and Atmospheric Sciences, Developing Online Teaching on Climate Change (*Institute for Atmospheric and Earth System Research, University of Helsinki, Finland).* Lecture on "Innovative Educational Technologies for Climate Education."

Risto Makkonen, Climate, Atmospheric Aerosols, Earth System Models (*Institute for Atmospheric and Earth System Research, University of Helsinki, Finland).* Lecture on "Modeling for Climate and Environmental Research."

Jon Xavier Olano Pozo & Enric Aguilar, Climatology, Geography, Climate Services, Climate Datasets, Statistical Climatology, Climate Indices (*Centre for Climate Change, Universitat Rovira i Virgili, Spain).* Lecture on "Designing Online and Blended Learning Programs for Climate Education"

Kalev Sepp, Nature Conservation and Landscape Management, and Veljo Kabin, Educational Technology (*Chair of Environmental Protection and Landscape Management, Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences, Estonia).* Lecture on "Designing entering online exam using Moodle for climate change and adaptation programs."

Veljo Kabin, Educational Technology *(Department of Academic Affairs, Estonian University of Life Sciences, Estonia).* Lectures on "Blended/Online Learning in Education: An Introduction," and "Advanced Techniques in Moodle to Enhance Climate Education," emphasizing interactive online course creation.

Tetiana M. Tkachenko, Architecture, Green Transformation and Development *(Head of the Department of Environmental Protection Technologies and Labour Safety, Kyiv National University of Construction and Architecture, Ukraine).* Lecture on Adaptation to Climate Change by Green Structures.

Organizers

International Erasmus+ ClimEd project (http://climed.network)
Estonian University of Life Sciences, Tartu, Estonia.
University of Helsinki, Helsinki, Finland.

Target audience

Teaching/ Research staff and postgraduates in educational and research disciplines

Selection criteria

Based on motivation letter (incl. why you need this training; how you use climatic information in your profession; how you plan to use such information in future; your commitment to training) & CV (max 2pages)

Registration deadline **1 September 2024**
Language English
Costs **no fee**

4.2. List of Participants of the 5th ClimEd Training

ClimEd Training 5 (onsite/ hybrid)

Blended/Online Learning for Climate Change: Bridging Theory, Technology, and Practical Application

September 30–October 4, 2024 Tartu, Estonia

List of Participants

N	Participant: Surname Name	University	Group
1.	Bereznytska Yuliia	KNUCA	E1
2.	Diadin Dmytro	BekNU	E3
3.	Dyman Tetyana	BTNAU	E3
4.	Hornovska Svitlana	BTNAU	E3
5.	Hrynevych Nataliia	BTNAU	E2
6.	Khandogina Olga	BekNU	E1
7.	Khomenko Inna	ONU	E1
8.	Liuta Oksana	LPNU	E1
9.	Nedostrelova Larysa	ONU	E2
10.	Sabadash Vira	LPNU	E2
11.	Strutynska Yuliia	BTNAU	E1
12.	Tkachenko Tetiana	KNUCA	E2
13.	Volvach Oksana	ONU	E3
On-line			
14.	Barsukova Olena	ONU	E4
15.	Borovska Halyna	ONU	E5
16.	Burchenko Svitlana	VNKNU	E5
17.	Drozd Olena	BekNU	E4
18.	Goptsiy Maryna	TSKNU	E7
19.	Halych Yelyzaveta	ONU	E7
20.	Kostiukievych Tetiana	ONU	E4
21.	Kuryshyna Viktoriia	ONU	E8
22.	Kushchenko Liliia	ONU	E7
23.	Kyrnasivska Nataliia	ONU	E4
24.	Mishchenko Natalia	ONU	E5
25.	Nazhmudinova Olena	ONU	E6
26.	Nikitin Pavlo	ONU	E8
27.	Ovcharuk Valeriya	ONU	E7
28.	Prokofiev Oleg	ONU	E5
29.	Semenova Inna	ONU	E6
30.	Semerhei-Chumachenko Alina	ONU	E6
31.	Shepel Victoriya	NUOMA	E6
32.	Tolmachova Alla	ONU	E8
33.	Voloshina Olena	ONU	E8
34.	Zhygailo Olena	ONU	E4

ONU - Odesa I.I. Mechnikov National University (Odessa, Ukraine)
KNUCA - Kyiv National University of Construction and Architecture (Kyiv, Ukraine)BekNU - O. Beketov National University of Urban Economy (Kharkiv, Ukraine) LPNU - Lviv Polytechnic National University (Lviv, Ukraine)
BTNAU - Bila Tserkva National Agrarian University (Bila Tserkva, Ukraine)
NUOMA - National University Odessa Maritime Academy (Odessa, Ukraine)
TSKNU - Taras Shevchenko National University of Kyiv (Kyiv, Ukraine)
VNKNU - V. N. Karazin Kharkiv National University (Kharkiv, Ukraine)

4.3. 5th ClimEd Training Certificates

Eesti Maaülikool
Estonian University of Life Sciences

CERTIFICATE

NO 5.1-16/5036-24
hereby confirms that

Inna Semenova

has attended and successfully completed
the Erasmus+ **ClimEd Training**
on

Blended/Online Learning for Climate Change:
Bridging Theory, Technology and Practical Application

provided in the period from September 30 to October 4, 2024
at the Estonian University of Life Sciences
(register code 74001086, Fr. R. Kreutzwaldi 1, 51006 Tartu, EHIS code 174237)

VELJO KABIN
CO-HEAD OF AUTUMNSCHOOL

KALEV SEPP
CO-HEAD OF AUTUMNSCHOOL

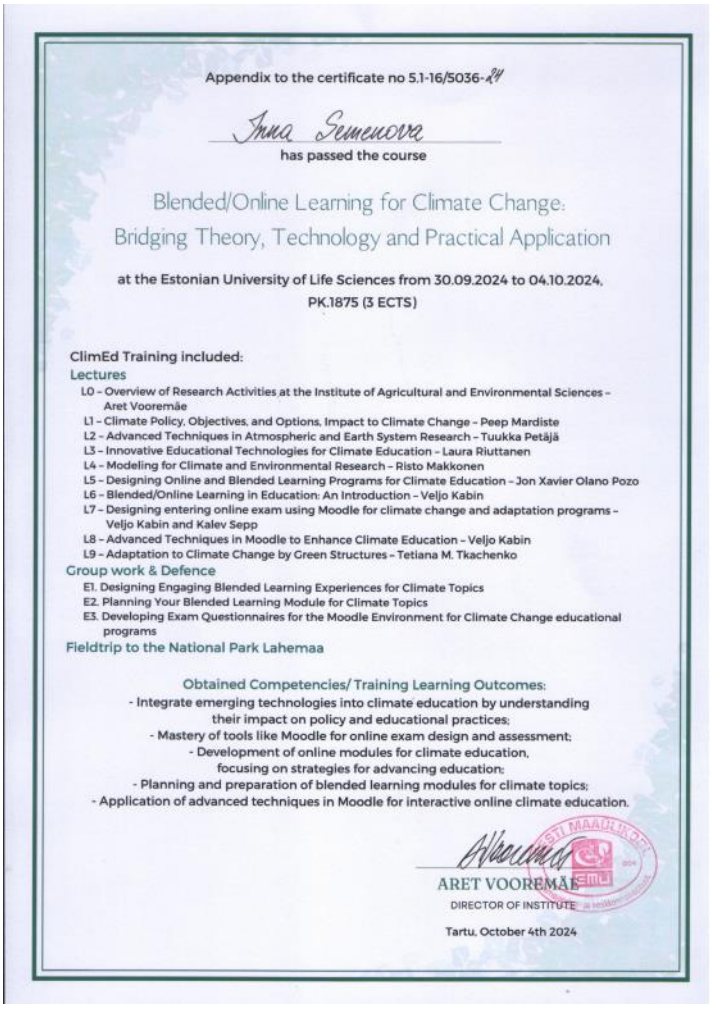
ARET VOOREMÄE
DIRECTOR OF INSTITUTE

Tartu, October 4th 2024

Erasmus+ ClimEd Project
"Multilevel Local, Nation- and Regionwide Education and Traning in Climate Services, Climate Change Adaptation and Mitigation"
(619285-EPP-1-2020-1-FI-EPPKA2-CBHE-JP)
http://climed.network

Co-furded by the Erasmus+ Programme of the European Union

ClimEd



Appendix to the certificate no 5.1-16/5036-24

Inna Semenova
has passed the course

Blended/Online Learning for Climate Change:
Bridging Theory, Technology and Practical Application

at the Estonian University of Life Sciences from 30.09.2024 to 04.10.2024.
PK.1875 (3 ECTS)

ClimEd Training included:

Lectures

L0 – Overview of Research Activities at the Institute of Agricultural and Environmental Sciences – Aret Vooremäe
L1 – Climate Policy, Objectives, and Options, Impact to Climate Change – Peep Mardiste
L2 – Advanced Techniques in Atmospheric and Earth System Research – Tuukka Petäjä
L3 – Innovative Educational Technologies for Climate Education – Laura Riuttanen
L4 – Modeling for Climate and Environmental Research – Risto Makkonen
L5 – Designing Online and Blended Learning Programs for Climate Education – Jon Xavier Olano Pozo
L6 – Blended/Online Learning in Education: An Introduction – Veljo Kabin
L7 – Designing entering online exam using Moodle for climate change and adaptation programs – Veljo Kabin and Kalev Sepp
L8 – Advanced Techniques in Moodle to Enhance Climate Education – Veljo Kabin
L9 – Adaptation to Climate Change by Green Structures – Tetiana M. Tkachenko

Group work & Defence

E1. Designing Engaging Blended Learning Experiences for Climate Topics
E2. Planning Your Blended Learning Module for Climate Topics
E3. Developing Exam Questionnaires for the Moodle Environment for Climate Change educational programs

Fieldtrip to the National Park Lahemaa

Obtained Competencies/ Training Learning Outcomes:
- Integrate emerging technologies into climate education by understanding their impact on policy and educational practices;
- Mastery of tools like Moodle for online exam design and assessment;
- Development of online modules for climate education, focusing on strategies for advancing education;
- Planning and preparation of blended learning modules for climate topics;
- Application of advanced techniques in Moodle for interactive online climate education.

ARET VOOREMÄE
DIRECTOR OF INSTITUTE

Tartu, October 4th 2024