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## ClimEd 1<sup>st</sup> Online Training on Competency-Based Approach to Curriculum Development for Climate Education

The [ClimEd 1<sup>st</sup> Online Training](#) on “Competency-Based Approach to Curriculum Development for Climate Education” took place during 19 April – 12 May 2021. The [ClimEd](#) project trainings are focused on training the faculty staff 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.

From about 60 applicants, 46 persons (including 36 female, 14 young teachers/researchers) were accepted to participate in this online training. These were from the Ukrainian ClimEd partners and associated partners Universities such as the Odessa State Environmental University (OSEN, Odessa), Kyiv National University of Construction and Architecture (KNUCA, Kyiv), O. Beketov National University of Urban Economy (Kharkiv), Lviv Polytechnic National University (Lviv, LNU), Bila Tserkva National Agrarian University (Bila Tserkva), Odessa National Medical University (Odessa), Kherson State Agrarian and Economic University (Kherson) and T. Shevchenko national University of Kyiv (Kyiv).

The training started from a series of lectures by Prof. Yuri Razhkevych (Lviv Polytechnic National University, Lviv, Ukraine) and Prof. Marek Frankowicz (Jagiellonian University in Krakow, Krakow, Poland) during 19-20 April. The presented lectures covered the following topics: basic terms of competency training, formulation of learning outcomes, educational and professional standards, building and description of educational program, competency-based learning - qualifications, competences, learning outcomes, curriculum design, student-centred learning, teaching and learning methods, and assessment. On 21<sup>st</sup> April, presentations with discussions on preparatory exercises on learning outcomes, constructive alignment, etc. took place, followed by introduction into homework assignments, HWAs for 12 Groups (so-called [Groups A1-A12](#), each mixed group included up to 4 persons - from different Universities, gender, age).

During followed weeks of April and beginning of May 2021, the Groups have established horizontal communication within/between groups and worked on own ClimEd related HWAs as thematic modules “Towards climate-smart policy in the economic sector” and “The economic sector transformation: changes, challenges and governance” for selected directions such as Agriculture, Energy, Technical Design and Construction, Urban Economy, Water Management, and Health-care. Such work was done actively using the Moodle system of the Estonian University of Life Sciences (EULS) with all materials (lectures, working documents, presentations, etc.) uploaded there.

On 12th May 2021, during the last day of the training, each Group presented (in English and national languages) 3 own elaborated modules. The presentations 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 (corresponding to 3 ECTS) as recognition of their achieved learning outcomes.

 <p><b>CERTIFICATE</b> This is to confirm that <i>Name Surname</i> has attended and successfully completed the Erasmus+ ClimEd Training (online) on Competency-Based Approach to Curriculum Development for Climate Education 19 April – 12 May 2021</p> <p><b>Erasmus+ ClimEd Project</b> “Multilevel Local, National and Regional Education and Training in Climate Services, Climate Change Adaptation and Mitigation” 2019-2021-2021-1-UK-ETN-01015-CLIM-ED</p>	<p style="text-align: center;">Name Surname</p> <p style="text-align: center;">has been awarded three (3) credits according to the European Credit Transfer and Accumulation System (ECTS)</p> <p><b>ClimEd Training includes:</b></p> <p><b>Lectures:</b></p> <ul style="list-style-type: none"> <li>Lecture 1 – Basic terms of competence training</li> <li>Lecture 2 – Formulation of learning outcomes</li> <li>Lecture 3 – Educational and professional standards</li> <li>Lecture 4 – Building and description of educational program</li> <li>Lecture 5 – Qualification, competences, learning outcomes</li> <li>Lecture 6 – Curriculum design</li> <li>Lecture 7 – Student-centred learning teaching and learning methods</li> <li>Lecture 8 – Assessment</li> </ul> <p><b>Home-Work-Assignment (Projects as Modules, M) &amp; Defense:</b></p> <p>M1: ... write here title of group project... to be proposed by group</p> <p>M2: M3:</p> <p><b>Obtained Competences/ Training Learning Outcomes:</b></p> <ul style="list-style-type: none"> <li>• Analyze program and national qualification framework</li> <li>• Characterize domain knowledge</li> <li>• Formulate learning outcomes on the programme and course levels</li> <li>• Use and modify main stages of curriculum design</li> <li>• Select of essential components influencing curriculum design</li> <li>• Describe the concept of course and programme</li> <li>• Describe and analyse effects of teaching and learning</li> <li>• Describe teaching and learning methods for student-centred learning</li> <li>• Prepare and justify selection and description of learning and teaching methods for the course</li> <li>• Awareness of pedagogical factors, needs and assessment</li> <li>• Interpret assessment methods for various learning outcomes and argue for their adequacy</li> </ul>	 <p style="text-align: center;">Ім'я Прізвище</p> <p style="text-align: center;">отримав три (3) кредити відповідно до Європейської кредитно-трансферної системи (ECTS)</p> <p><b>Тренінг за проектом ClimEd включав:</b></p> <p><b>Лекції:</b></p> <p>Лекція 1 – Основні терміни компетентного навчання</p> <p>Лекція 2 – Формулювання навчальних результатів</p> <p>Лекція 3 – Освітні та професійні стандарти</p> <p>Лекція 4 – Будова та опис освітньої програми</p> <p>Лекція 5 – Кваліфікація, компетенції, навчальні результати</p> <p>Лекція 6 – Розробка навчальної програми</p> <p>Лекція 7 – Студент-центричний навчання та навчальні методи</p> <p>Лекція 8 – Оцінювання</p> <p><b>Домашнє завдання (Проекти у вигляді модулів, М) та захист:</b></p> <p>M1: ... впишіть тут назву теми групового проекту... для запропонованого предмету</p> <p>M2: M3:</p> <p><b>Отримані компетенції / результати навчання:</b></p> <ul style="list-style-type: none"> <li>• Аналізувати програму та національну кваліфікаційну рамку</li> <li>• Описувати предметну область</li> <li>• Сформулювати навчальні результати на рівні курсу</li> <li>• Вибирати та модифікувати основні етапи розробки навчальної програми</li> <li>• Описувати концепцію курсу та програми</li> <li>• Описувати вплив ефектів навчання та навчання</li> <li>• Описувати методи навчання та навчальні методи</li> <li>• Підготувати та обґрунтувати вибір методів навчання та навчальних методів для курсу</li> <li>• Підготувати та обґрунтувати вибір методів оцінювання</li> <li>• Інтерпретувати результати оцінювання та аргументувати їх адекватність</li> </ul>
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Two groups (A4 and A10) got the highest scores of 9.31 and 9.13, respectively, and these have been awarded the certificates with distinction (“Platinum”). Four other Groups (A2, A3, A7, and A9) obtained certificates having the “Gold” status (i.e. with scores higher than 8.5). Note that members of these 6 Groups were automatically accepted (i.e. without required application procedure) as approved participants for the ClimEd 2<sup>nd</sup> Training (expecting in June 2021).

In the concluding words, it was stressed that participants of the training have obtained new/ upgraded (virtual learning environment, pedagogical, team work, presentation, etc.) skills. Moreover, further own work/developments are needed in improving teaching and learning methods, formulation of learning outcomes, assessment, and individualized approaches. For ClimEd project participants several areas of importance are remained such as climate and healthcare, climate and energy sector, climate and water management, climate and urban problems, climate and construction sector, climate and agriculture, climate and economical factors.

The e-evaluation of the ClimEd 1<sup>st</sup> Training was done using two questionnaires distributed among participants. Following the 1<sup>st</sup> questionnaire – (Evaluation of the Training) – more than 95% of the participants have “strongly agreed” and “agreed” that the lecturers were supportive and open to participants and conducted training excellently, training materials were of excellent quality and information about training was sufficient, and participants will recommend such training to colleagues.

Following the 2<sup>nd</sup> questionnaire – (Evaluation of Own Learning Outcomes) - more than 90% of the participants “fully agree” and “mostly agree” that they have reached the learning outcomes (competences/ abilities to): explain European and national qualification frameworks; characterize Bloom’s taxonomy; formulate learning outcomes at the programme and course levels; list and explain main steps of curriculum design; reflect on external constraints influencing curriculum design; describe the concept of constructive alignment; describe active methods of teaching and learning; provide examples of good and bad practice for student centered learning; propose adequate teaching and learning methods for various types of classes; awareness of psychological factors linked with assessment; propose assessment methods for various learning outcomes and argue for their adequacy.

Special thanks to the key lecturers of the training – Prof. Marek Frankowicz and Prof. Yuri Razhkevych for their professionalism, enthusiasm and commitment to the training, and to Dr. Veljo Kabin, EULS for continuous technical support (EULS Moodle system, Zoom-hosting, e-evaluations, etc.) during the entire period of the training. Special thanks to the OSENU team members (Dr. Oleg Shablii and Dr. Inna Khomenko) for support with ClimEd relevant modules development and 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-training-1-online/>

Text by: Tetyana Kryvomaz (KNUCA), Valeriay Ovcharuk (OSENU), and Alexander Mahura (UHEL)

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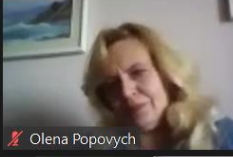
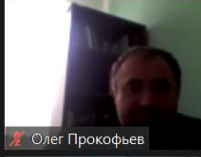





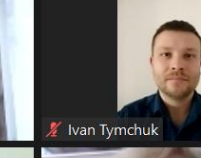

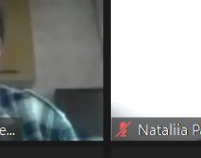
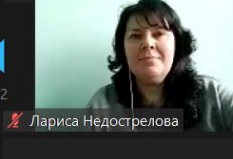
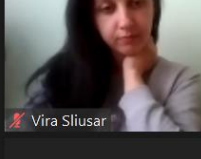
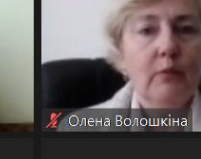
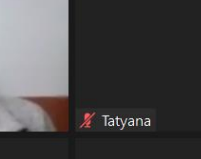
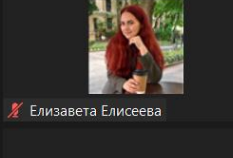
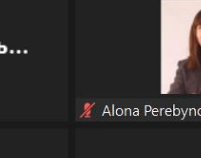
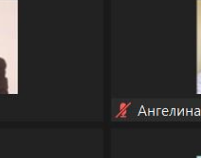
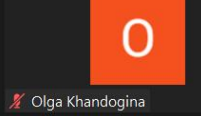

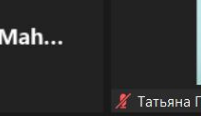
*Joint online photo of the ClimEd 1<sup>st</sup> Training participants*

 Елена Нажудинова	 Veljo Kabin	 Valeriya Ovcharuk	 Тетяна Кривомаз	 Галина Боровская
 Марина Гопций	 Alla Kruivska	 Marek Frankowicz	 Kate Gusyeva	 Ellina Agayar
 Юрій Рашкевич	 Varvara Sytnikova	 Человек	 Тетяна Петрівна Шаб...	 Olena Popovych
 Олег Прокофьев	 Yuri Vergeles	 Anna Bohushenko	 Oksana Liuta	 Youssef El Hadri
 Maksym	 Ivan Tymchuk	 Alina Borysivna Seme...	 Nataliia Papakina	 Лариса Недострелова

Mute Start Video Security Participants 39 Polls Chat Share Screen Pause/Stop Recording Breakout Rooms Reactions End View

Recording... View

Veljo Kabin is talking...

 Olena Popovych	 Олег Прокофьев	 Yuri Vergeles	 Anna Bohushenko	 Oksana Liuta
 Youssef El Hadri	 Maksym	 Ivan Tymchuk	 Alina Borysivna Seme...	 Nataliia Papakina
 Лариса Недострелова	 Vira Sliusar	 Олена Волошкіна	 Tatyana	<b>НЕНОВА ОКСАНА</b>
 Елизавета Елисева	<b>Antonina Savch...</b>	<b>Виктория Юрь...</b>	 Alona Perebynos	 Ангелина Артюх
<b>Віра Сабадаш</b>	 Olga Khandogina	 Nataliya Vronska	<b>Alexander Mah...</b>	 Татьяна Прутян

Mute Start Video Security Participants 39 Polls Chat Share Screen Pause/Stop Recording Breakout Rooms Reactions End