



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



ClimEd 1st Online Training on Competency-Based Approach to Curriculum Development for Climate Education

The [ClimEd 1st 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 (OSENU, 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 Rashkevych (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 21st 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>CERTIFICATE 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><small>Erasmus+ ClimEd Project "Multilevel Local, National and Regional Education and Training in Climate Services, Climate Change Adaptation and Mitigation" 519258-ETN-1-2020-1-PT-TR01-CBIE-CP http://clim.ednetwork.eu</small></p> |  <p>СЕРТИФІКАТ Цим засвідчуємо, що <i>Ім'я Прізвище</i> пройшов (ла) та успішно завершив (ла) тренінг (онлайн) за проектом Erasmus+ ClimEd з Компетентнісного підходу до розробки навчальної програми для кліматичної освіти 19 квітня - 12 травня 2021 року</p> <p><small>Проект Erasmus+ ClimEd "Багаторівнева освіта та професійне навчання з метою імплементації послуг, адаптації до змін клімату та реагування на несприятливі наслідки клімату на регіональному та національному рівнях" 519258-ETN-1-2020-1-PT-TR01-CBIE-CP http://clim.ednetwork.eu</small></p> |  <p>Имя Прізвище отримав (ла) три (3) кредитні одиниці до Європейської кредитно-трансферної системи (ECTS) Тренінг за проектом ClimEd включав: Лекції: Лекція 1 - Основні терміни компетентнісного навчання Лекція 2 - Формулювання навчальних результатів Лекція 3 - Освіта та професійна стандарти Лекція 4 - Робота на основі освітньої програми Лекція 5 - Кваліфікаційні компетенції, навчальні результати Лекція 6 - Конструктивне навчання Лекція 7 - Створення власних навчальних матеріалів Лекція 8 - Оцінювання Домашнє завдання (Проекти у вигляді модулів, М) та записи: М1 - "Мінікурс" у вигляді курсу з проекту - був визначений проектом М2 - М3 - Отримані компетенції / результати навчання: Лекція 1 - Здаття співрозуміти та навчатися в системі різних кваліфікацій Лекція 2 - Здаття працювати з компетенціями ЄО Лекція 3 - Здаття розуміти потреби та інтереси різних груп користувачів та користувачів Лекція 4 - Здаття розуміти потреби та інтереси різних груп користувачів та користувачів Лекція 5 - Здаття розуміти потреби та інтереси різних груп користувачів та користувачів Лекція 6 - Здаття розуміти потреби та інтереси різних груп користувачів та користувачів Лекція 7 - Здаття розуміти потреби та інтереси різних груп користувачів та користувачів Лекція 8 - Здаття розуміти потреби та інтереси різних груп користувачів та користувачів</p> |
|---|--|---|

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 2nd 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 1st Training was done using two questionnaires distributed among participants. Following the 1st 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 2nd 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 Rashkevych 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 Shabliy 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), Valeriya Ovcharuk (OSENU), and Alexander Mahura (UHEL)

14 May 2021

Joint online photo of the ClimEd 1st Training participants

Recording... [Pause] [Stop]

View

| | | | | |
|-------------------|-------------------|-------------------------|------------------------|---------------------|
| Елена Нажмудинова | Veljo Kabin | Valeriya Ovcharuk | Тетяна Кривомаз | Галина Боровская |
| Марина Гопций | Alla Kruivska | Marek Frankowicz | Kate Gusyeva | Ellina Agayar |
| Юрий 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... [Pause] [Stop]

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 Sliushar | Олена Волошкіна | Tatyana | НЕНОВА ОКСАНА |
| Елизавета Елисева | Antonina Savch... | Виктория Юрь... | Alona Perebynos | Ангелина Артюх |
| Віра Сабадаш | Olga Khandogina | Nataliia Vronska | Alexander Mah... | Татьяна Прутян |

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