



ClimEd Training 1 (Online)
Competence-Based Approach
to Curriculum Development for Climate Education

19 April – 12 May 2021

Programme of the Training

Block I: Lecturing

Training Day 1 – 19 April 2021

Yuri Rashkevych, Lviv Polytechnic National University (Lviv, Ukraine)

Lectures - in Ukrainian

	Content in Ukrainian	English sumup
Session 1 09.00–09.45	Основні терміни компетентнісного навчання <ul style="list-style-type: none"> • кваліфікація (освітня, професійна, повна, часткова) - означення (національні законодавство та міжнародні документи), структура, процедури присвоєння та визнання; • компетентність - означення, класифікація, використання в освітніх програмах та професійних стандартах; • результати навчання (learning outcomes) - означення (національні законодавство та міжнародні документи), класифікація, використання в освітніх програмах та професійних стандартах. 	Basic terms of competence-based learning: <ul style="list-style-type: none"> • qualifications • competences • learning outcomes
09.45-10:00	<i>Запитання / відповіді</i>	<i>Questions / Answers</i>
Session 2 10:00–10:45	Формулювання програмних результатів навчання та результатів навчання окремих дисциплін <ul style="list-style-type: none"> • таксономія Блума; • формулювання програмних результатів навчання; • формулювання результатів навчання окремих модулів. 	Writing learning outcomes (LOs) <ul style="list-style-type: none"> • Bloom’s taxonomy • Programme LOs • Course LOs
10:45–11:15	<i>Запитання / відповіді</i> <i>Перерва на каву / чай</i>	<i>Questions / Answers</i> <i>Coffer / Tea Break</i>
Session 3 11:15–12:00	Освітні та професійні стандарти <ul style="list-style-type: none"> • класифікація освіти (міжнародна і національна); • класифікація професій (міжнародна і національна). Структура стандарту вищої освіти Структура професійного стандарту, врахування професійних стандартів в стандартах освіти та освітніх програмах	Educational and professional standards
12:00–12:15	<i>Запитання / відповіді</i>	<i>Questions / Answers</i>
Session 4 12:15–13:00	Методологія побудови та опис освітньої програми Вибірковість в освітніх програмах	Curriculum design Flexibility of study programs, elective courses
13:00–13:15	<i>Запитання / відповіді</i> <i>Концепція 3-го дня - презентації та дискусії</i> <i>Підводячи підсумки</i>	<i>Questions / Answers</i> <i>Concept of Day 3 – presentations and discussions</i> <i>Summing up</i>

Training Day 2 – 20 April 2021

Marek Frankowicz, Jagiellonian University in Krakow (Krakow, Poland)

Lectures - in English

	Title	Content * English summary of Day 1 training	Expected learning outcomes
Session 1 09:00–09:45	Competence based learning 1: Introduction	Basic terms of competence-based learning: qualifications, competences, learning outcomes. Writing learning outcomes: Bloom's taxonomy (also mentioning other taxonomies), Programme LOs, Course LOs	Ability to explain European and national QF systems. Ability to characterize Bloom's taxonomy Ability to formulate LOs at the programme level and at the course level.
09:45–10:00	<i>Questions / Answers</i>		
Session 2 10:00–10:45	Competence based learning 2: Curriculum design	International educational curricular standards. TUNING reference points. Main steps of curriculum design. External factors influencing curriculum design. Flexibility of study programs, elective courses. The concept of constructive alignment	Ability to list and explain main steps of curriculum design. Ability to reflect on external constraints influencing curriculum design. Ability to describe the concept of constructive alignment.
10:45-11:00	<i>Questions / Answers</i> <i>Coffee / Tea Break</i>		
Session 3 11:00–11:45	Competence based learning 3: Teaching and learning methods	The concept of student-centered learning (SCL). Presentation of teaching and learning methods. The concept of active learning. Examples of teaching and learning methods for different types of classes.	Ability to describe active methods of T&L Ability to provide examples of good and bad practice for SCL. Ability to propose adequate T&L methods for various types of classes.
11.45–12:00	<i>Questions / Answers</i>		
Session 4 12:15–13:00	Competence based learning 4: Assessment methods	Psychological factors of assessment. «Heisenberg Principle» for assessment. Overview of main assessment methods. Examples of assessment of different types of LOs	Awareness of psychological factors linked with assessment. Ability to propose assessment methods for various LOs and argue for their adequacy
13:00–13:15	<i>Questions / Answers</i> <i>Summing up</i>		

Training Day 3 – 21 April 2021

Groups/ Teams work and Preparation for HomeWork Assignments (HWAs)

Marek Frankowicz, Jagiellonian University in Krakow (Krakow, Poland)

Yuri Rashkevych, Lviv Polytechnic National University (Lviv, Ukraine)

Session 1 09.00–10.15	Discussion on learning outcomes, constructive alignment etc.
10.15–10:30	<i>Coffee/ Tea Break</i>
Session 2 10:30–11:45	Discussion on learning outcomes, constructive alignment etc.
11:45–12:00	<i>Coffee/ Tea Break</i>
Session 3 12:15–13:30	Discussion on learning outcomes, constructive alignment etc.
13:30–13:45	<i>Summing up</i>

- Prepare some examples of learning outcomes (5-7 minutes and discussion)
- Discussions, exercises
- Group/ team work, critical thinking, etc.
- 4 speakers/ session (including discussion); 12 speakers in total (1 person from each group, chosen by group members) – see assigned members (3-4 persons from different Universities) into mixed Groups A1-A12 (below in Annex I)
- Each speaker proposes 3 learning outcomes related with his/her subject area and proposes also on how to assess these
- **Details of this exercise will be explained by Yuri Rashkevych (in Ukrainian) at the end of Day 1**
- **Important remark:** as the participants were already divided into 12 groups (A1-A12), they may have their individual workspaces in the MOODLE for collaborative work during the training (preparation for Day 3 and discussions), and later jointly working in groups on HWAs.

Block II: Training continues as Groups' work on HomeWork Assignments (HWAs)

22 April – 29 April (zoom on status/ progress reporting on HWAs by groups) – 11 May 2021

Proposed exercises as modules (each module corresponds to 2 ECTS)

- (A) “Abstract” module (e.g. cooking, telekinesis, etc.)
- (B) General module (related with general knowledge and/or soft skills)
- (C) Specific module (related with climate issues, and interdisciplinary)

For each module:

- Define learning outcomes (from 4 to 10, recommended 6-8; should include both subject-specific and generic skills)
- Propose the content of the module (max. ½ page)
- Propose and justify teaching and learning methods (max. ½ page)
- Propose and justify assessment criteria & tests/questions/problems to solve (max. 1 page)

HWA format (*module description: preferably to use format which will be applied to ClimEd courses*)

- 3 papers (2-3 pages each)
- 1 poster for a selected module (posters can be placed in MOODLE after 2 weeks, then there would be some days for preparation of critical discussions on the final day of training)

Formulation and assessment of HWA:

- Module (A) – proposed by group members (should not be related with their subject areas)
- Modules (B) and (C) – proposed by ClimEd Team

Evaluation of HWA:

- Formal side: formulation of LOs, adequacy of teaching, learning and assessment methods
- Marek Frankowicz – 6 groups & Yuri Rashkevych – 6 groups
- ClimEd Team: evaluation of content of (B) and (C) from the subject area point of view

**Block III - Presentations and Discussions of HomeWork Assignments (HWAs)
Final Day of Training – 12 May 2021**

Session 1 09:00–10:00	Presentations (posters) and critical discussions of HWAs by Groups 1&12 and Groups 2&11
10:00–10:15	<i>Coffee/ Tea Break</i>
Session 2 10:15–11:15	Presentations (posters) and critical discussions of HWAs by Groups 3&10 and Groups 4&9
11:15–11:30	<i>Coffee/ Tea Break</i>
Session 3 11:30–12:30	Presentations (posters) and critical discussions of HWAs by Groups 5&8 and Groups 6&7
12:30–12:45	E-evaluation of HWAs and feedback E-evaluation of the ClimEd 1st training and feedback
12:45–13:00	Awarding e-certificates (3 ECTS) Summing up



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Annex I: ClimEd 1st Training – Participants assigned to A1-A12 Groups/ Teams

Groups	Surname Name	e-mail contact	University
A1	Malovanyy Myroslav	myroslav.mal@gmail.com	LPNU
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OSENU	- Odessa State Environmental University (Odessa, Ukraine)
KNUCA	- Kyiv National University of Construction and Architecture (Kyiv, Ukraine)
BNUUEK	- 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)
ONMU	- Odessa National Medical University (Odessa, Ukraine)
KhSAEU	- Kherson State Agrarian and Economic University (Kherson, Ukraine)
TShNUK	- T. Schevchenko national University of Kyiv (Kyiv, Ukraine)