

INAR

INSTITUTE FOR ATMOSPHERIC AND
EARTH SYSTEM RESEARCH

Climate University – innovative educational technologies for climate education

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ACCC

ATMOSPHERE AND CLIMATE
COMPETENCE CENTRE

- Flagship of four universities / research institutes in Finland
- Three Research Programs
- Impact Program implemented via 13 impact tasks
- <https://www.acccflagship.fi/>



Climate University

*- brave forerunner in educating
active sustainability makers for
the society and business -*



Climate University mission 2023-2027:

We educate the competencies the society needs to tackle the challenges of climate change and the sustainability crisis.

Our values:

- Re-think and respect for planet and people
 - Science-based trustworthiness
 - Openness and sharing
- Interdisciplinary and cross-boundary collaboration
 - Bravery

Partners

Network of 28 higher education institutions in Finland

Cross-study agreements





Online learning materials

- Open for everyone
- Easy-to-use Up to date
- Linked between courses
- Engaging content
- Quality design



Impactful, climate & sustainability focused

- Science-based
- Solutions
- Action
- Real-world cases
- Future perspectives
- International



Multidisciplinary collaboration

- Collaborative projects
- Mixed backgrounds
- Multi-institutional
- Interaction



Solid pedagogy

- Written goals aligned
- Diverse methods
- Transparent evaluation
- Guides for teachers
- Flipped learning



Reflective

- Critical evaluation of current systems
- Hope, positive visions
- Reflecting values
- Dialogue



**CLIMATE
UNIVERSITY**

Course Principles

Courses

2-5 ECTS each
50+ ECTS in total
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www.climateuniversity.fi



SUSTAINABLE.NOW



CLIMCOMMS.NOW



SYSTEMSCHANGE.NOW



CIRCULAR.NOW



CLIMATE.NOW



LUKIOLAISEN ILMASTO.NOW



STATISTICAL TOOLS



SOLUTIONS.NOW



LEADERSHIP FOR SUSTAINABLE CHANGE



BIODIVERSITY.NOW



FORESTS AND CLIMATE



LIVING WITH CHANGING CLIMATE

Example 1: Climate.now course schedule 2023, 7 weeks:

	W1	W2	W3	W4	W5	W6	W7
Joint online session	x		x		x		x
Learning diary	(x)	(x)	(x)	(x)	(x)	(x)	x
Independent study	x	x	x	x	x	x	x
Assignments	x	x	x	x	x	x	x
Group workshop (facilitated by teachers)		x		x		x	
Group meeting (self-organized)			x		x		x

CLIMATE.NOW

Example 2: Leadership for sustainable change course schedule 2023

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Part 1	Part 2	Part 3	Project Assignment			
Quiz 1	Quiz 2	Quiz 3				
Forum 1	Forum 2	Forum 3				
Assig. 1	Assig. 2	Assig. 3				
	Review Assig. 1	Review Assig. 2	Review Assig. 3			
Meeting 1	(Assig. Clinic)	(Assig. Clinic)	Meeting 2	(Project Clinic)	(Project Clinic)	Meeting 3

Strict deadlines!

Examples of activities on online courses

- **Independent study: reading material, videos, quizzes**
- **Teacher-led sessions: online lectures, group discussions, panel discussions, online canvas (flinga, miro...)**
- **Peer-reviewed exercises: reflections, essays, project work**
- **Group work: small projects (e.g. climate exhibition, carbon neutral university, own climate projects)**

Some online tools for educational purposes

Online learning platforms: moodle...

Videoconferencing: Zoom, teams...

Online canvas: Miro...

Polls, feedback: Mentimeter, other free poll tools...

Google docs/sheet/presentation/canvas...

Gamified tools: Kahoot...

How to create social presence in online learning?

Reference: Aragon, S. R. (2003). Creating social presence in online environments. *New directions for adult and continuing education*, 2003(100), 57-68.

Course design: Develop welcome messages, Include student profiles, Incorporate audio, Limit class size, Structure collaborative learning activities

Instructors: Contribute to discussion boards, Promptly answer E-mail, Provide frequent feedback, Strike up a conversation, Share personal stories and experiences, Use humor, Use emotions, Address students by name, Allow students options for addressing the instructor

Participants: Contribute to discussion boards, Promptly answer E-mail, Strike up a conversation, Share personal stories and experiences, Use humor, Use emotions, Use appropriate titles

Use reactions in the zoom panel / manually



I learned something new

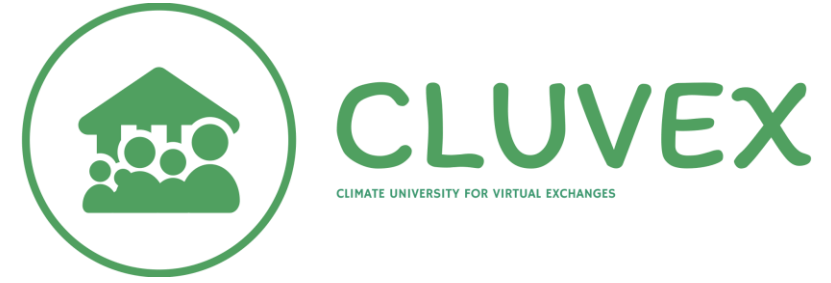


That was insightful



I did not learn anything new

Climate University for Virtual Exchanges



1st VE week 14.-18.10.2024

- Erasmus+ project for 2023-2026
- Virtual exchanges for 2500 students in Finland, Denmark, Ukraine and Armenia
- Students attend a VE week + Climate University courses
- Climate Ambassador Certificate in the end
- Collaborators: University of Helsinki (coord), University of Copenhagen, Odessa State Environmental University, Taras Shevchenko National University of Kyiv, Yerevan State University, BioArt Society
- Registration open: <https://www.atm.helsinki.fi/cluvex/>



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the European Union



Lead a sustainable life

Greetings to students who want to make the sustainability transformation in the society real

surround yourself with people who have different skills than you

Just do it! Be the change!



Let's do it together

be compassionate when it comes down to sustainability!

One small change at a time is always a movement in the right direction!

Big things start from individuals

Do it progressively! Don't need to make drastic changes! Baby steps :)

Don't care about other people's opinions, trust science and good intentions

Don't be afraid to be the first one to do something

Your butterfly wings matter, thanks to you, we are heading for the right direction 🦋🦋

Insist on it

Stronger together!

This course has exceeded my expectations, I recommend it warmly!

Step by step. It's change.

Just start with small steps - and realize the difference you make

When forming groups, go for "change the world"!

Learn to deal with failures and how to overcome them :) Failure is not an end of the world!

Be the change you want to see in the world! :)



Find your own sweet spot for making the biggest impact!

Don't be afraid to think big

Sustainability is not an abstract concept. It is our now and future! So be present, and learn as much as you can, to be better!



SUSTAINABLE.NOW

course students 2021
University of Helsinki

We do not inherit the Earth from our ancestors; we borrow it from our children

We do not own the Earth

#ClimateUniversity



climateuniversity.fi

