



ILMASTO. NYT

Korkeakoulujen ilmasto-opetus Suomessa
OPH ilmasto-osaamisen hanketapaaminen 2.6.2020

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Sisältö

- Ilmasto.nyt
- Climate University
 - Ilmasto.nyt lukioille
 - Muut uudet korkeakoulukurssit
- Mitä seuraavaksi?
 - Opettajien täydennyskoulutus (OPH)

www.climatenow.fi
www.ilmastonyt.fi

The screenshot shows a web browser window with the URL <https://mooc.helsinki.fi/course/view.php?id=36>. The page features a teal header with the text "My Courses" and "© Sitra 2016". Below the header, the course title "Climate.now" is displayed. A "CONTENTS" section lists 11 items with their respective progress bars:

- Welcome (Progress: 0 / 3)
- 1. Climate change - what is it about? (Progress: 0 / 4)
- 2. Climate system (Progress: 0 / 4)
- 3. The future of the climate (Progress: 0 / 4)
- 4. Impacts (Progress: 0 / 5)
- 5. Mitigation (Progress: 0 / 5)
- 6. Adaptation (Progress: 0 / 3)
- 7. Big issues (Progress: 1 / 4)
- 8. Applied perspectives and assignments (Progress: 0 / 4)
- 9. Glossaries and other material (Progress: 0 / 2)
- 10. To the teacher (Progress: 0 / 1)
- 11. Contact information

A "Course Dashboard" link is visible at the bottom right of the content area.

Welcome

CLIMATE. NOW



Learning objectives

Student can

- look at climate change from many different perspectives and create connections between them as well as look for solutions to the climate challenge in a variety of ways.
- reflect on his or her own role in climate change and apply what has been learned on the course to his or her field of study.
- examine different perspectives, solutions, information sources and the current debate on climate change critically.

CLIMATE. NOW



Climate.now courses in universities

- **University of Helsinki** (course code ATM302)
- **University of Eastern Finland** (course code 3352703)
- **University of Oulu** (course code 766383A)
- **LUT University** (course code BH60A5900 and BH60A2601)
- **University of Jyväskylä** (course code BENA4036 and CEMY5120)
- **Tampere University** (course code FYS-3300)
- **Aalto University** (course code PHYS-E0580)
- **Metropolia University of Applied Sciences**
 - Many of these courses are also open via open university.

CLIMATE.NOW

CLIMATE UNIVERSITY

Teaching and learning for sustainable future

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CLIMATE UNIVERSITY

*We need a new generation
with competences to tackle
the challenges of climate change
and the sustainability crisis.*

CLIMATE UNIVERSITY

Who?

- 11 universities
- Funding from Ministry of Education and Culture 2018-2020 (70%), Finnish Innovation Fund Sitra (10%), universities (20%)

CLIMATE UNIVERSITY

What?

- Online education on climate change and sustainability
- Workshops for university teachers
- Collaboration with schools and working life

CLIMATE UNIVERSITY

What is needed?

Based on study of needs, 2019:

- *Interdisciplinarity*
- *Holistic understanding*
- *Collaboration*
- *Data and science*
- *Science communication*
- *Values & ethics*
- *Consumer perspective*

Climate University new courses by 2020

Master level courses



"SystemsChange.
now"

"Solutions.now"

"Climate data
and statistics"

Bachelor level courses



"Sustainable.
now"

Modifications / additions



1 ECTS
"Climate
communication"

A minor (e.g. 25 ECTS) can be formed out of these 5 ECTS courses

www.leadforsust.fi

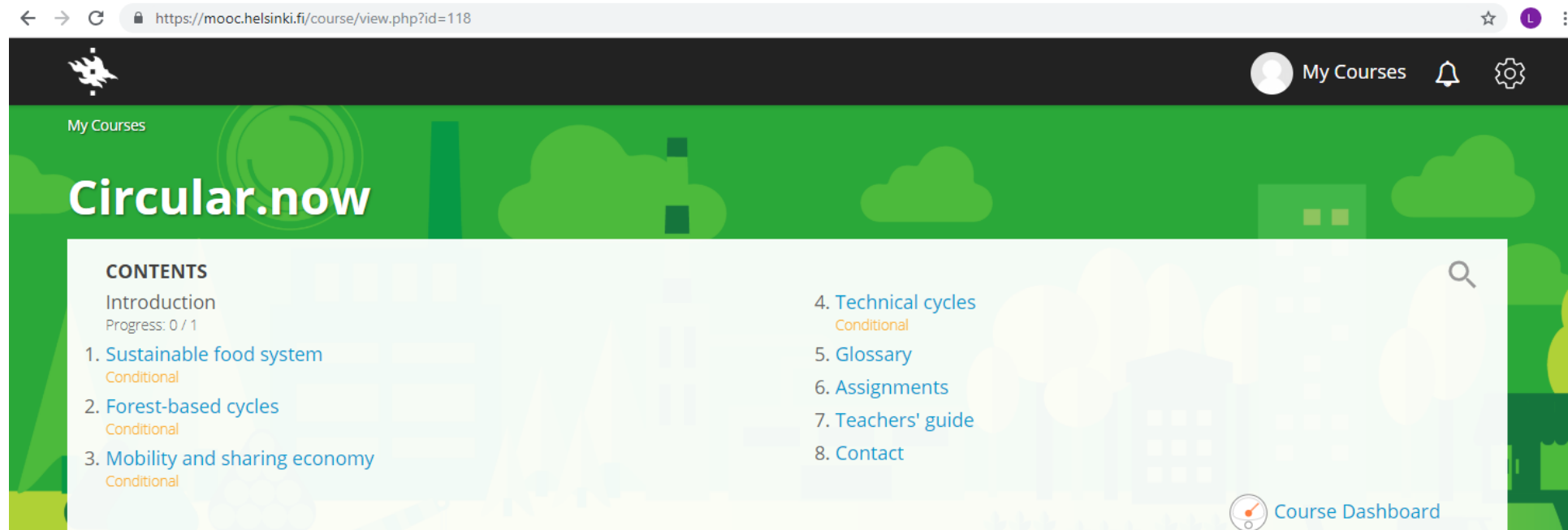
The screenshot shows a web browser window with the URL <https://mooc.helsinki.fi/course/view.php?id=115>. The page features a dark navigation bar with a logo on the left and 'My Courses', a notification bell, and a settings gear on the right. Below the navigation bar is a large orange banner with a white geometric pattern and the text 'Leadership for sustainable change'. A 'My Courses' label is visible in the top left of the banner. The main content area is divided into two columns. The left column is titled 'CONTENTS' and lists: 'Introduction' (Progress: 1 / 1, marked with a green checkmark), '1. Challenges of sustainability' (Progress: 0 / 2), and '2. Leading societal transition' (Progress: 0 / 3). The right column lists: '3. Professional Changemakers' (Progress: 0 / 4), '4. Project assignment' (Progress: 0 / 1), '5. To the teacher', '6. Glossary', and '7. Contact information'. A search icon is located on the right side of the content area. At the bottom right, there is a 'Course Dashboard' link with a circular icon containing a red arrow.

Introduction

Welcome to the course Leadership for sustainable change!



www.circularnow.fi
www.kiertotalousnyt.fi



The screenshot shows a web browser window with the URL <https://mooc.helsinki.fi/course/view.php?id=118>. The page features a green header with the text "My Courses" and "Circular.now". Below the header, there is a "CONTENTS" section with a search icon in the top right corner. The contents list includes: Introduction (Progress: 0 / 1), 1. Sustainable food system (Conditional), 2. Forest-based cycles (Conditional), 3. Mobility and sharing economy (Conditional), 4. Technical cycles (Conditional), 5. Glossary, 6. Assignments, 7. Teachers' guide, and 8. Contact. A "Course Dashboard" button is located in the bottom right corner of the content area.

My Courses

Circular.now

CONTENTS

Introduction
Progress: 0 / 1

1. Sustainable food system
Conditional
2. Forest-based cycles
Conditional
3. Mobility and sharing economy
Conditional
4. Technical cycles
Conditional
5. Glossary
6. Assignments
7. Teachers' guide
8. Contact

Course Dashboard

Introduction





13.1.-6.3.2020

PROJECT COURSE FOR SOLVING
SUSTAINABILITY CHALLENGES

Solutions. now

Open MOOC course for Master level students

Read more & register:
blogs.helsinki.fi/climateuniversity



- Pilot course collaborators:
- City of Vantaa
 - Micropolis
 - ST1
 - Partioaitta
 - CGI
 - Useless
 - Esri Finland
 - Neste

Coming in 2020:



SUSTAINABLE. NOW

Piecing together the challenges of climate change and sustainability

- 5 ECTS
- In Finnish & in English
- BSc level

Oppimistavoitteet

Opiskelija hahmottaa ilmiölähtöisesti ilmastomuutoksen ja kestävä kehityksen haasteista tulevat risteävät, osin ristiriitaiset, tavoitteet sekä tilanteen moniulotteisuuden.

Kurssin suoritettuaan opiskelija tuntee ilmastomuutoksen ja kestävä kehityksen eri tavoitteiden välisiä monitieteisiä yhteyksiä ja hahmottaa erilaisia työkaluja ongelmien ratkaisuun.

Opiskelija ymmärtää positiivisuuden ja ratkaisukeskeisyyden merkityksen sekä yksilöllillä olevan globaalin vastuun että systemisen muutostarpeen kautta.

Coming in 2020:



SYSTEMS CHANGE.NOW

- 5 ECTS
- In English
- MSc level
- Prerequisites: Climate.now / Sustainable.now, or similar knowledge

LEARNING OBJECTIVES

Language of systems thinking

Systems thinking concepts and terminology in climate change and related global crises.

Analytical approach

Analytical approach to complex phenomena such as climate change, recognition of structures and basic level analysis of dynamic.

Confidence, expertise, belonging

Overcome unease of entering a foreign field of science, and instead considers themselves as a junior member of the expert community.

Coming in 2020:

Statistical tools for climate and atmospheric science (5 ects)

- Introduction to open data and basic data handling
- Descriptive methods and basic tests
- Linear models
- Nonlinear models and other regression methods
- Time series analysis
- Multivariate methods
- Validating and reporting the results of statistical analysis



UNIVERSITY OF
EASTERN FINLAND



UNIVERSITY OF HELSINKI



Nordplus

Coming in 2020:

A NEW CLIMATE.NOW MODULE:

CLIMATE



COMMUNICATION.NOW

Coming in 2020:

A large, horizontal, teal-colored brushstroke with a textured, painterly appearance, slanted slightly upwards from left to right. It serves as a background for the text.

ILMASTO. NYT

LUKIOILLE

CLIMATE UNIVERSITY

Course principles:

- Online materials open for everyone (CC-BY-SA)
- Impactful & solution oriented
- Science based
- Multidisciplinary collaboration
- Digicampus platform, linked to aoe.fi



Minna Lakkala

Veera Kallunki

Lassi Linnanen

Outi Haanperä

Markku Kulmala

Liisa Ilomäki

VIRTUAL CLIMATE UNIVERSITY 26.-27.5.2020

- Online Learning & Sustainability Transition in a post COVID-19 World
- 150 participants from 7 countries



Mute



Stop Video



Security



Participants 137



Chat



Share Screen



Record



Closed Caption



Breakout Rooms



Reactions

End

CLIMATE UNIVERSITY

Coming workshops:

Climate science and law
Kuopio Autumn 2020

Climate University summary
Tampere Autumn 2020

Mitä seuraavaksi?

- Climate University tarvitsee jatkoa
- Opettajien täydennyskoulutus

ILMASTONMUUTOKSEN OPETUKSEN JALKAUTTAMINEN LUKIO-OPETUKSEEN

Tavoitteet

1. Lukio-opettajien osaamisen lisääminen ilmastonmuutoksen kokonaisuuteen liittyen
2. osallistujien ohjaaminen soveltamaan olemassa olevaa tieteellistä kurssi- ja opetusmateriaalia
3. aiheen opetusaineiston integroiminen eri oppiaineisiin
4. auttaa opettajia tunnistamaan ja helpottamaan oppilaiden tunnereaktioita ilmastonmuutokseen liittyen
5. lisätä ja tukea lukioden korkeakouluyhteistyötä
6. lukioyhteistyön lisääminen
7. hyvien käytäntöjen jakaminen

- Yhteistyötahot: HY+ Oy (hallinnoija), HY (INAR), Tampereen YO, Oulun YO, Climate University
- Rahoittaja OPH, osallistujalle maksuton

- **Kohderyhmä:** lukion aineenopettajat
- **Toteutus** vuosina 2020 -2021
- 3 toteutusta: Helsinki, Oulu ja Tampere / verkko
- Laajuus 6 op
- **Monimuotokoulutus** sisältäen:
 - ennakkotehtävän
 - Ilmasto.nyt lukioille –verkkokoulutuksen (2 op)
 - 2 lähipäivää
 - verkkomateriaalin (mm: videot, pocastit, oppimistehtävät)
 - 2 verkko-oppimista tukevaa webinaaria
 - oman opetuskokeilun
 - ohjaus ja verkostoituminen
- Lähipäiviin voi osallistua myös etäyhteydellä
- **Lisätiedot:** riitta.aho@helsinki.fi , tarkempi sisältökuvaus HY+:n verkkosivuilla <https://bit.ly/2ynP3n6>
- Toteutuskohtainen aikataulu päivitetään sivustolle syyslukukauden alussa.

CLIMATE UNIVERSITY

blogs.helsinki.fi/climateuniversity

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email-list

 LinkedIn group

 YouTube channel

 @uni_climate

#ClimateUniversity