



**Rebuilding a Better Ukraine via the New European Bauhaus Academy
(NEB Academy Hub Ukraine)**

The role of architects and communities in NEB projects

Course Syllabus

Date: 18 October 2024, 10:00 – 13:30 EEST (9:00 – 12:30 CET)

Venue: MSTeams

Language: English and Ukrainian (with translation)

For whom: Stakeholders from the creative and social sector

Title of the course:	Role of architects and communities in NEB projects
Duration of the training:	3 hours
Lecturer:	assoc. prof. Anna Sandak, PhD
Co-Lecturers:	mag. Eva Prelovšek Niemelä
	prof. Andreja Kutnar, PhD
	assoc. prof. Michael Burnard, PhD
	assist. prof. Rok Prislán, PhD
	assist. prof. Mohammed Derikvand, PhD
Language:	English with translation to Ukrainian
Learning method:	Interactive Lecture & Self-Directed Learning

Short description course objectives:

This course introduces the NEB and its key elements: its values and working principles, the NEB Compass, the NEB Toolbox, and the NEB Investment guidelines. The course will also share the policy and regulatory framework behind the NEB and that supports it going forward. Finally, the course covers cultural and aesthetic qualities of the built environment, and the inclusiveness processes that support their development.

The objective of this course is to enable stakeholders from the creative and social sectors to take a central role in Ukraine's reconstruction by blending artistic creativity with community engagement, cultural heritage preservation, and social innovation. By fostering collaboration across sectors, the course ensures that Ukraine's rebuilding efforts are not only sustainable and functional but also rooted in human-centered, emotionally healing, and culturally rich designs that will help communities recover and thrive.

Content (Syllabus outline):

1. European Green Deal - Prompts for urban authorities
 - a. Construction and renovation in a spirit of circularity and carbon neutrality





- b. Preserving and transforming cultural heritage
 - c. Adapting and transforming buildings for affordable housing solutions
 - d. Regenerating urban spaces
2. Introduction to the New European Bauhaus
- a. What is NEB and how did it come to be?
 - b. NEB Compass: values and working principles in action
 - c. NEB Toolbox: Stakeholder mapping, implementing co-creation, methods and examples
 - d. NEB Investment guidelines: how-to
 - e. NEB Examples from Ukraine & Beyond
3. Sustainable construction
- a. Working with bio-based materials: opportunities and overcoming challenges
 - b. Circularity in construction: recovery, reuse, recycling, and resource management
 - c. Renovation and cultural heritage
 - d. Place-based design
4. Engaging the senses for health and wellbeing in buildings
- a. Buildings and well-being
 - b. The visual, haptic, and olfactory environment
 - c. The sound environment

Readings:

New European Bauhaus (NEB) Investment Guidelines (2024); https://new-european-bauhaus.europa.eu/get-involved/neb-investment-guidelines_en

New European Bauhaus Toolbox (2024); <https://new-european-bauhaus.europa.eu/system/files/2024-01/NEB%20toolbox.pdf>

New European Bauhaus Compass (2022); https://new-european-bauhaus.europa.eu/get-involved/use-compass_en

European Green Deal (2019); https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/european-green-deal_en

Competences:

Competence in using NEB Compass in their investment projects

Skills in analyzing the results of co-creation activities, material sustainability, building quality

Practical skill in applying NEB working principles to real investment projects





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Intended learning outcomes:

Explain the fundamental principles of NEB.
Identify the key applications and potential of NEB in various projects
Describe the steps involved in a NEB projects
Evaluate the projects with NEB Compass
Implement place-based and restorative design approaches in practice
Liaise with other creatives and construction ecosystem actors for collaboration

Assessment:

Attending the training and complete the feedback survey.

References of the lecturers:

Schellnhuber H.J., Widera B., Kutnar A., Organschi A., Hafner A., Hillebrandt A., Murphy O., Nakicenovic N. (2022) Horizon Europe – New European Bauhaus Nexus Report. 61p.; doi:10.2777/49925

KUTNAR, Andreja. Critical appraisal of wood as a building material. V: SCHELLNHUBER, Hans-Joachim (ed.), TISEYR, Rocio Armillas (ed.). Reconstructing the future : cities as carbon sinks. Basel, Switzerland: Birkhäuser, [2023]. Str. 46-54, ilustr. ISBN 978-3-0356-2701-5, ISBN 978-3-0356-2697-1. <https://birkhauser.com/books/9783035627015>, <https://doi.org/10.1515/9783035627015>

Mooses, K., Camacho, M., Cavallo, F., Burnard, M.D., et al., 2022. Involving Older Adults During COVID-19 Restrictions in Developing an Ecosystem Supporting Active Aging: Overview of Alternative Elicitation Methods and Common Requirements From Five European Countries. *Front. Psychol.* 13, 818706. <https://doi.org/10.3389/fpsyg.2022.818706>

Burnard, M.D., Kutnar, A., (2015). Wood and human stress in the built indoor environment: a review. *Wood Science and Technology* 49, 969–986. <https://doi.org/10.1007/s00226-015-0747-3>

Burnard, M., (2017). Bio-based materials and human well-being in the built environment, in: Jones, D., Brischke, C. (Eds.), *Performance of Bio-Based Materials*. Woodhead Publishing, Duxford, pp. 365–372.






Kavka, U., Vrhovnik, M.M., and Prislán, R. "Acoustic transformation of an abandoned industrial hall into a multipurpose venue, by incorporating the existing technical features of the space and DFD approach." (2023).

Derikvand, Mohammad, and Gerhard Fink. "Design for deconstruction: benefits, challenges, and outlook for timber–concrete composite floors." *Buildings* 13, no. 7 (2023): 1754

Lecturers





	<p>Prof. Andreja Kutnar, PhD (andreja.kutnar@innorenew.eu) Position & Affiliation:</p> <ul style="list-style-type: none">- Director of InnoRenew CoE- Professor of wood science at University of Primorska <p>Expertise: wood science and technology, life cycle assessment More: https://innorenew.eu/employee/andreja-kutnar/</p>
	<p>Assoc. Prof. Anna Sandak, PhD (anna.sandak@innorenew.eu) Position & Affiliation:</p> <ul style="list-style-type: none">- Deputy Director & Head of Material department at InnoRenew CoE- Associate Professor of wood science at University of Primorska- ERC consolidator grant holder (ARCHI-SKIN) <p>Expertise: Engineered living materials, bio-based materials More: https://innorenew.eu/employee/anna-sandak/</p>
	<p>Assoc. Prof. Michael Burnard, PhD (mike.burnard@innorenew.eu) Position & Affiliation:</p> <ul style="list-style-type: none">- Deputy Director & Head of Health department at InnoRenew CoE- Associate Professor of wood science at University of Primorska <p>Expertise: human health in the built environment More: https://innorenew.eu/employee/mike-burnard/</p>
	<p>Eva Prelovšek Niemelä (eva.prelovsek@innorenew.eu) Position & Affiliation:</p> <ul style="list-style-type: none">- Head of Creativity & Society department at InnoRenew CoE <p>Expertise: license architect; REED design; designing built environment following NEB values and working principles More: https://innorenew.eu/employee/eva-prelovsek-niemela/</p>
	<p>Assist. Prof. Rok Prislán, PhD (rok.prislán@innorenew.eu) Position & Affiliation:</p> <ul style="list-style-type: none">- Head of Buildings department at InnoRenew CoE- Assistant Professor of built environment at University of Primorska <p>Expertise: acoustic design of built environment More: https://innorenew.eu/employee/rok-prislán/</p>



Mohammad Derikvand, PhD

(mohammad.derikvand@innorenew.eu)

Position & Affiliation:

- Researcher at InnoRenew CoE
- Assistant Professor of the built environment at University of Primorska

Expertise: timber engineering, design for disassembly, circular construction

More: <https://innorenew.eu/employee/mohammad-derikvand/>

