dipartimento di architettura
università degli studi di napoli federico II
scuola politecnica e delle scienze di base

sviluppo sostenibile e reti territoriali

2nd Edition
Spring
Workshop

AURORA

8 positions open to Aurora students of any background

GOVERNING URBAN METABOLISM

Designing for Circular Processes. Urban Waste in the Metropolitan Area of Naples

The course is aimed at developing critical capacity and specialized skills regarding the relationship between environmental sustainability goals and design, stressing the technical and heuristic intelligence of the same to prefigure new eco-socio-technical environments appropriate to the finite condition of natural resources.

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

AURORA EUROPEAN UNIVERSITIES
Università degli Studi di Napoli Federico II

General Info

GOVERNING URBAN METABOLISM

2nd Edition Spring Workshop

Planning for Circular Processes. Urban Waste in the Metropolitan Area of Naples

2 online lectures:
25.02.25/11.03.25

5 days Workshop in Naples:
Start 07.04.25 / Finish 11.04.25

3 ECTS assigned

In the current context of climate change and resource depletion, it is becoming increasingly important to provide more inclusive, circular, and sustainable models for the city. The adoption of circular operation strategies is pivotal for implementing an integrated planning approach with the aim of reducing emissions and optimizing the use of resources, influencing both processes and behaviors. The design disciplines have focused on urban metabolism, working on the spatialization of input and output flows, also including neglected abandoned areas as part of the material flows. These latter are considered as the most challenging for experimenting circular design process at the urban scale, realizing new eco-socio-technical relationships.

The participants will develop a systemic design proposal able to create a short supply chain of paper waste, in a multi-level framework of reduce, reuse, and redesign, planning new urban flows supported by waste hubs and markets.

The workshop specially develops studies on products life cycles, associated with the existing sectorial planning tools, and the extended opportunities for including a wide range of dismissed areas (wastescape) in the comprehensive circular waste management at urban scale. Reclaim can improve the quality of life of disregarded communities, crossing the issues of spatial and social justice within the ecological dimension.

The participants will co-design and apply circular solutions in a specific area within the Metropolitan Area of Naples, a densely populated neighbourhood at the margins of the former state-owned Italsider steelworks in Bagnoli neighbourhood, with a dedicated field trip and meeting local stakeholders and communities.

Product: Economic, Technical and Social Sustainability Plan of the textile supply chain

Format: Lectures, seminars, fieldtrips, design studio

8 positions open to Aurora students of any background

Prerequisite: enrolled in B.A, or equivalent course at any Aurora university, English proficiency.

Application procedure: send expression of interest and CV to anna.attademo@unina.it and marina.rigillo@unina.it

Deadline: December 1st-15th, 2024 | Notification of acceptance 20th December 2024

Professors

Anna Attademo is a researcher in Urban Planning at the University of Naples Federico II, PhD in Urbanism and Territorial Planning. She teaches in the "Governing Urban Metabolism" Laboratory of the Sustainable Development and Territorial Networks Bachelor Degree.
She has done research and third mission experiences on the periurban areas of the Metropolitan Area of Naples, with a specific attention on local planning and community engagement processes, participating in European funded projects and co-designing some public facilities through the recovery of abandoned areas.
She was a member of the Horizon 2020 project “REPAiR” and URBACT III “Sub> urban”. On the subject, she co-edited the volume “Fringe Shifts” (Listlab, 2018). She also co-edited, with Professors Michelangelo Russo and Enrico Formato, the book “Transitional Landscapes” (Quodlibet, 2023).

The extended CV and her publications are available on:
https://www.docenti.unina.it/anna.attademo

Marina Rigillo is Associate Professor at the University of Naples Federico II, PhD in Architecture Technology. Her scientific interests are in the field of environmental design, with a focus on climate adaptation, the development of circular supply chains in construction and the requirements of emerging dwell. She teaches Technological Design of Life Cycles in the course of Sustainable Development and Territorial Networks (SRT) and Technological Design in the master course Design for the Built Environment (DBE). She is member of the DiARC Doctoral College of Architecture, and in the EU "TREND" doctoral project panel.
She has been responsible of EU research projects, such as the EU Swich Asia funded project 3R4UB,as well as National funded project such as PROSIT. Designing in Sustainability: qualification and digitalization in construction, and the FORWARD project, funded under the MICS Extended Partnership (with Prof. Massimo Perriccioli).

The extended CV and her publications are available on:
https://www.docenti.unina.it/marina.rigillo

Basic Readings for future reference

- CEC (2015) Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions. Closing the loop - An EU action plan for the Circular Economy.
- COM (2015) 614 CEC (2019), Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions on the *Implementation of the Circular Economy Action Plan*,
- COM (2019)190 CEC (2019), Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions, *The European Green Deal*, COM(2019) 640 final
- CEC (2020), Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions *A new Circular Economy Action Plan For a cleaner and more competitive Europe*
- COM (2020) 98 final CEC (2020), Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions *A Renovation Wave for Europe - greening our buildings, creating jobs, improving lives,*
- COM(2020) 662 final EC – European Commission - (2008) Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives EC – European Commission - (2018) Directive 2018/851/ EC of the European Parliament and of the Council of 30 May 2018 amending Directive 2008/98/EC on waste
- EEA (European Environment Agency) (2016), *More for Less. — material resource efficiency in Europe*, EEA Report No. 10/2016 https://www.eea.europa.eu/publications/more-from-less EEA - European Environment Agency (2020),
- Amenta L., Attademo A., Remøy H., Berruti G., Cerreta M., Formato E., Palestino F., Russo M. (2019) Managing the Transition towards Circular Metabolisms: The Peri-Urban Living Labs (PULL) Decision Model. Urban Planning, vol. 4, n. 3, ISSN 2183-7635
- Attademo A., Formato E. (ed. by), 2019, Fringe shifts, LISt Lab, Barcelona-Trento
- Cossu, R., Salier, V., Bisinella, V. (2012), Introduction: The Urban Mining Concept, in Cossu, R., Salier, V., Bisinella, V. (eds), *Urban Mining: A global cycle approach to resource recovery from solid waste*, CISA ed. Padova pp.13-20
- EMF (Ellen MacArthur Foundation) (2015), *Delivering the Circular Economy A Toolkit for Policy Makers* UK www.ellenmacarthurfoundation.org/assets/downloads/publications/EllenMacArthurFoundation_PolicymakerToolkit.pdf
- Rigillo M., Amenta L., Attademo A., Boccia L., Formato E., Russo M. (2018), Eco-Innovative Solutions for Wasted Landscapes, RI-VISTA, Vol.1, pp. 146-159, DOI: 10.13128/RV-22995
- Rigillo M., Formato E., Russo M. (2020), Short Supply Chain of Waste Flows: Designing Local Networks for Landscape Regeneration, in Detritus. Multidisciplinary Journal for Waste Resources & Residues, Special Issue Waste Architecture Cagliari, Italy / © 2020 by CISA Publisher, Italy, pp. 35-44