

Jean Monnet Module

“European Practices of Green Transformation:
Lessons for Ukraine”
Project 101085133 – EUGREEN



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Yakovyshyna T.F., Korniiivskyi S.V. *EU Adaptation to Climate Change and Sustainable Urban Ecosystems: Textbook (Second, Updated Edition)*
Dnipro: PSACEA, 2025. – 152 p. **ISBN: —**

The textbook is designed to develop students' abilities to analyze the sustainable development of urban ecosystems in the context of ecological, economic, and technical components.

The European Green Deal's policy framework for sustainable development requires the training of specialists capable of solving practical applied problems within technologically burdened urban ecosystems, contributing to the greening of the economy, transforming Europe into a climate-neutral continent, improving citizens' well-being, and protecting biodiversity.

The course aims to provide students with knowledge about climate change and adaptation to its negative consequences from scientific, social, and political perspectives, considering the specific features of technologically burdened regions and their natural resource base, to ensure sustainable development of urbanized territories in line with the structure of local industries.

During the course, based on EU green practices, students will acquire theoretical and practical skills in solving problems related to the impact of climate change on the natural and technogenic components of urban ecosystems in high-load regions; developing multi-purpose environmental protection measures to mitigate climate change consequences and ensure the ecological safety of urban areas; forming mechanisms for adaptation and stimulating self-recovery processes of urban ecosystems in accordance with the global Sustainable Development Goals, particularly the European Green Deal climate actions and UN SDG 13: Climate Action.