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**PRESENTATION OF THE JEAN MONNET MODULE
“PROMOTION OF EUROPEAN SKILLS AND APPROACHES FOR
SUSTAINABLE BIOECONOMY IN THE CONDITIONS OF
UKRAINIAN ACUTE CHALLENGES” (PESAB)**

Jean Monnet Module “Promotion of European skills and approaches for sustainable bioeconomy in the conditions of Ukrainian acute challenges” (PESAB) builds upon the successful implementation of international scientific and educational grants and projects of Kyiv National University of Technologies and Design (KNUTD) [1].

Following the unprovoked Russian invasion of Ukraine, the need to enhance the transition towards both clean energy and sustainable, resilient, and fair food systems has never been stronger and clearer. Future implementation of the EU Bioeconomy Action Plan will have to take into account the implications on food and energy prices, as well as prices of energy-intensive products, and global supply chains, and address resulting additional pressure on natural resources within ecosystem boundaries.

As a result of complex global problems, such as environmental deterioration, depletion of natural resources and population growth, a

new direction has emerged – the bioeconomy, which includes all sectors and branches of the economy that produce, manage and otherwise use biological resources. Due to the relevance of this area, in 2021 the Department of Smart Economics of KNUTD opened the new Bachelor's degree program in Bioeconomics which became the first Bachelor's degree program in this area in Ukraine. The aim of the program is to train specialists based on an interdisciplinary approach with deep basic and professional competencies in economics, biotechnology and ecology, aimed at acquiring knowledge in the fields of social and behavioral sciences with wide access to employment and further education. The project envisages the creation of a module, which provide for obtaining by students of various Bachelor's and Master's degrees the additional competencies in the production, exploitation and use of biological resources, processes and systems to provide products, processes and services across all economic sectors.

The aim of the module is to Europeanize the institutional, organizational and procedural architecture of consumer protection in financial conditions in the context of digital transformation, which will ultimately contribute to financial integration and financial stability of Ukraine and will be achieved through European studies in financial and economic bachelors.

The aim of PESAB Module can also be achieved through European studies for undergraduate students and other ways of dissemination provided by the project. That will promote the development of a circular, green, sustainable bioeconomy in Ukraine, strengthening the connection between economy, society, and environment in the war conditions and post-war recovery.

PESAB is a project that generates, disseminates and implements European skills and approaches among pupils and students, promotes the improvement of teaching methods, dialogue between public authorities and NGOs in the field of sustainable bioeconomy, taking into

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account global threats. The implementation of the project ensures the acquisition of bioeconomy skills by pupils and students for use in the future in the European space.

The main goal of PESAB is to promote the knowledge of the EU in order to develop a sustainable bioeconomy in Ukraine in accordance with the EU strategy for the Bioeconomy.

The objectives of the project:

1. Promote the development of a sustainable bioeconomy in Ukraine in compliance with European principles and values in the war conditions and post-war recovery.

2. Develop educational and methodological support for the module in sustainable bioeconomy based on the digital content.

3. Provide training for teachers on the methods of teaching sustainable bioeconomy as a tool for disseminating European knowledge among Ukrainian universities and colleges (short-term mixed off-line and online courses using training technologies and game methods are planned for pupils and college students).

4. Provide research activities in the field of sustainable bioeconomy and its implementation in the educational process.

5. Develop cooperation among universities, businesses and local authorities to promote initiatives for using biological resources, processes and systems to provide products and services across all economic sectors.

6. Spread knowledge about the EU and the EU-Ukrainian relations in the field of bioeconomy to the wide Ukrainian public.

7. Attract young people and experienced specialists to the activities of the proposal that will help to develop innovative methods in teaching and research on the European experience of green growth and rebuild Ukraine's economy in the post-war period.

The project provides:

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1. Teaching three modules: 1) Sustainable biomass potentials of the EU and Ukraine; 2) Bioeconomics and trade in the context of international relations between Ukraine and the EU; 3) Strategies of sustainable bioeconomy of the European Union.

2. Conducting short-term mixed off-line and online courses pupils and college students.

3. Conducting a certified training for teachers in the methods of teaching sustainable bioeconomy.

4. Organization an academic conferences, round tables, workshops, scientific and practical seminars.

5. R&D in the field of sustainable bioeconomy.

Target groups of Jean Monnet Module PESAB are academic staff, scientists, young researchers, students, pupils. business representatives, NGO representatives, representatives of state and municipal authorities.

The implementation of the PESAB project will ensure the promotion of European knowledge, skills and approaches to a sustainable bioeconomy in Ukraine in the conditions of external challenges and the development of long-term partnership and cooperation with European institutions, and will contribute to the spread of green economy narratives among representatives of students, businesses, government officials, and pupils.

The implementation of the project will have a long-term positive impact on the activities of KNUTD, on the knowledge and skills of students and pupils, on the development of education and science in the field of sustainable bioeconomy.

Implementation of the project will lead to the expansion of the following skills of young people:

- use of information and communication technologies;
- ability to adapt and act in a new situation;
- ability to act socially responsibly and consciously;
- ability to learn and master modern knowledge;

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- implementation of safe activities;
- desire to preserve the environment;
- ability to comply with biosafety, biosecurity and bioethics requirements.

The involvement of scientists, young researchers, business representatives, NGO representatives, representatives of state and municipal authorities in consultations, discussions and recommendations during the implementation of the entire project will contribute to the creation and implementation of a high-quality module and will ensure the diffusion of European knowledge on bioeconomy in the long term.

Thus, the long-term effects are as follows:

- generation of knowledge and ideas for dissemination of EU policies and strengthening of the role of the EU in Europe and in the globalized world;
- strengthening cooperation between EU universities and universities of Ukraine;
- strengthening of scientific discussion in the field of bioeconomy in Ukraine;
- ideological impulse of bioeconomy development;
- ensuring scientific research activities in the field of sustainable bioeconomy and its implementation in the educational process;
- ensuring the training of teachers in the methods of teaching sustainable bioeconomy as a tool for spreading European knowledge among Ukrainian universities and colleges;
- spreading the European vision of a sustainable bioeconomy and best practices in Ukraine;
- more involvement of youth in environmental solutions;
- enhanced collaboration between scientists, universities, businesses and authorities to promote initiatives to use biological

resources, processes and systems to provide products and services in all sectors of the economy;

- dissemination of knowledge about regional opportunities for the application of biotechnologies and the use of biomass and smart specialization of regions;

- creation of a bioeconomy cluster based on the experience of the light industry cluster of the Kyiv National University of Technologies and Design;

- reaching the general public and spreading knowledge about the EU among society (beyond academic and specialized audiences), bringing the EU closer to the public.

The formation of a new direction of educational activity of KNUTD in the field of bioeconomy will contribute to the expansion of partnership relations and stimulate ecologically clean production.

The introduction of the Jean Monnet module contributes to the dissemination of European values and experience in the development of a sustainable bioeconomy and the Green Course among young people, teachers and researchers, and their acquisition of modern competencies in bioeconomy and ecology. It will also increase the effectiveness of green policy in the future in the context of cooperation and development, trade, investment, economy, environment and employment within the framework of the European Partnership between the EU and Ukraine.

The project will provide new ideas and solutions for promoting Ukraine's sustainable bioeconomy in the European space to overcome the long-term economic, financial, energy and food crisis caused by the war in Ukraine.

References

1. Jean Monnet Module ERASMUS-JMO-2023-HEI-TCH-RSCH “Promotion of European skills and approaches for sustainable bioeconomy in the conditions of Ukrainian acute challenges”. <https://knutd.edu.ua/grants/pesab/>