



KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI



SZKOŁA GŁÓWNA
GOSPODARSTWA WIEJSKIEGO
W WARSZAWIE

UNIA EUROPEJSKA
EUROPEJSKI
FUNDUSZ SPOŁECZNY



ABOUT BIOECONOMY

BASICS OF BIOECONOMY

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Projekt UDA-POKL.04.01.01-00-073/13-00

Program doskonalenia dydaktyki SGGW w dziedzinie bioekonomii oraz utworzenie kwalifikacji zawodowej „Młodszy menadżer jakości”

Projekt jest finansowany z Europejskiego Funduszu Społecznego w ramach Programu Operacyjnego Kapitał Ludzki 2007-2013, Priorytet IV Szkolnictwo wyższe i nauka, Działanie 4.1. Wzmocnienie i rozwój potencjału dydaktycznego uczelni oraz zwiększenie liczby absolwentów kierunków o kluczowym znaczeniu dla gospodarki opartej na wiedzy, Poddziałanie 4.1.1. Wzmocnienie potencjału dydaktycznego uczelni



Goals

- Provide knowledge on the theoretical basis and development of practical applications in the field of bio-economy.
- Acquaint with the bio-economy linkages and synergies with other fields of science and practice.
- Getting to know the benefits and the costs and challenges of application bio-economy.
- Acquaint with empirical research and the development of bio-economy scenarios.



Learning outcomes

- 01 - The student is able to explain the essence of bio-economy and exchange key problem areas within its framework
- 02 - The student has the ability to make decisions in the field of bio-economy using information known from classes
- 03 - The student is able to analyze problems in the field of bio-economy and to make their critical and creative assessment and formulate solutions for development
- 04 - The student has the ability to work with others, be creative and demonstrate the ability to work in a team in different roles

Agenda

Lecture	Content
Lecture 1. Bioeconomy – what is that?	Genesis, definition, functions and applications of bioeconomy.
Lecture 2. Is bioeconomy a part of the development policy?	Bioeconomy as an element of the development policy of countries in the world.
Lecture 3. Is bioeconomy really bio?	Bio-resources, Bio-processes and Bio-products as a basis for bioeconomy.
Lecture 4. Is bioeconomy a scientific theory or business practice?	Bioeconomy- its relationships and synergies with other sciences and practice.
Lecture 5. How bioeconomy serves national economy?	The use of bioeconomy in a variety of industries of national economy.
Lecture 6. Is bioeconomy the panacea to the problems of today and tomorrow?	Korzyści i koszty, szanse i zagrożenia wynikające z zastosowań bioekonomii.
Lecture 7. Quo vadis bioeconomy?	Scenariusze rozwoju bioekonomii.



Literature

- 'Cologne Paper' published on 30 May 2007 in Cologne at the conference 'En Route to the Knowledge-Based Bio-Economy' hosted by the German Presidency
- Report of the KBBE conference held on 14th September 2010 in Brussels, organised by the Belgian Presidency in collaboration with the European Commission.
- Styhre, A., Sundgren, M. 2011. Venturing into the Bioeconomy: Professions, Innovation, Identity. Wyd. Palgrave Macmillan, Sztokholm
- Kelvev, M., Ordenigo L. 2006. The Economics of Biotechnology. International Library of Critical Writings in Economics. Wyd. Edward Elgar, Washington D.C.
- Herndl, C., Anex, R., Brown, R., Cruse, R., Fales, S., Takle, G., 2007. Defining a Future Bioeconomy for the Nation: Bio-Renewable Resources and Complex Systems. Iowa State University. Ames.
- Zika, E., Papatryfon, I., Wolf, O., Gómez-Barbero, M., Stein, A., Bock, A.-K. 2007. Consequences, Opportunities, and Challenges of Modern Biotechnology for Europe. Wyd. Joint Research Centre, Institute for Prospective Technological Studies of European Commission. Seville.
- OECD. 2008. The Bioeconomy to 2030: designing a policy agenda. Wyd. OECD, Paris.
- Maciejczak M., Hofreiter K. 2013, How to define bioeconomy. Roczniki Naukowe SERIA, tom XV, zeszyt 4
- Gołębiewski J. 2014, Zrównoważona biogospodarka. Potencjał i czynniki rozwoju. XV Kongres Ekonomistów Polskich



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Assessment

60% - an essay prepared as the student's own work

40% - team analysis of defined problem