

BIALYSTOK UNIVERSITY OF TECHNOLOGY									Faculty of Engineering Management					
Field of study		Erasmus							Level and form of study		first degree/second degree			
A group of modules /specialty									Education profile					
Course name		Green economy							Course code		IS-FM-00114S			
									Course type		elective			
Course form(s) and number of hours		L	C	LC	P	SW	FW	S	Semester	summer				
		15	15						ECTS credits	5				
The programme is valid from									2025/2026					
Introductory courses														
Course objectives		Understanding the relationship between socio-economic development and the environmental sphere, acquiring knowledge about the green economy and the possibilities of implementing activities in its main areas. Acquiring the skills to include environmental issues in business.												
Framework programme content		Sustainable development as the basis of green economy. The concept, goals and principles of the green economy. Green economy in international, EU and Polish ecological policy. Main areas of green economy: sustainable energy and renewable energy sources, waste recycling, sustainable production and consumption, sustainable transport and sustainable agriculture. Green economy indicators. Financing activities in the field of green economy.												
Other information about the course		content of the course refers to the principles of sustainable development the course is related to the scientific activity conducted at the University												
		Student workload related to:							Total number of hours		including contact		including practical	
Calculation:		participation in lectures							15		15			
		participation in other forms of activities							15		15		15	
		participation in an examination							0		0			
		participation in consultations							5		5		3	
		completion of professional training							0		0		0	
		preparation for passing a lecture/an examination							25					
		preparation for practical classes							65				65	
		Total number of hours:							125		35		83	
		Total number of ECTS credits:							5		1,4		3,3	
Expected discipline learning outcomes									Knowledge		Skills		Social competence	
Objectives and framework content prepared by		dr inż..Joanna Godlewska							Date:		03.03.2025			
Implementation in the academic year									2025/2026					
		Lecture												
Programme content		1	An overview of the scope of the lecture and the conditions of passing and evaluating. Conditions of the green economy development. 1h											
		2	Main challenges for a green economy at the global level.2h											
		3	Sustainable development as the basis of green economy.2h											
		4	The concept, goals and principles of the green economy. 2h											
		5	Green economy in international, EU and Polish ecological policy.2h											
		6	Main areas of green economy: sustainable energy and renewable energy sources, waste recycling, sustainable production and consumption, sustainable transport, sustainable agriculture. 2h											
		7	Green economy indicators. 2h											
		8	Financing activities in the field of green economy.1h											
		9	Passing the lectures.1h											
		Classes												
		1	An overview of the scope of the classes and the conditions of passing and evaluating. Introduction to issues related to the green economy.1h											
		2	Problems, objectives nad activities related to the green economy in the Sustainable Development 2h											
		3	A cause-and-effect map of the greenhouse effect.2h											
		4	The best practicies of mitigation and adaptation to climate change. 2h											
		5	Examples of industrial symbiosis. 2h											
		6	Ecolabelling in sustainable consumption.2h											
		7	The key benefits of sustainable transport projects.2h											
		8	Sources of financing activities regarding the green economy. 1h											
		9	Passing the classes.1h											
Teaching methods (on-site classes)		L	informational lecture with the multimodal presentation											
		C	case study, project method											
Teaching methods (online classes)		L	informational lecture with the multimodal presentation on MS Teams											
		C	case study, project method											
Forms of crediting		L	written final test											
		C	evaluation of completed tasks and projects, evaluation of the prepared presentations											
Conditions of crediting		L	obtaining a grade of 3.0 after reaching the threshold of at least 51%. Final grade: (0-50)% of points - 2.0; (51-60)% points - 3.0; (61-70)% points - 3.5; (71-80)% points - 4.0; (81-90)% points - 4.5; (91-100)% points - 5.0.											
		C	obtaining a grade of 3.0 after reaching the threshold of at least 51%. Final grade: (0-50)% of points - 2.0; (51-60)% points - 3.0; (61-70)% points - 3.5; (71-80)% points - 4.0; (81-90)% points - 4.5; (91-100)% points - 5.0.											

Outcome symbols	Expected learning outcomes	Expected learning outcomes defined for the field of study		
		Knowledge	Skills	Social competence
	<b>Knowledge: the student knows and understands</b>			
E1	the basic concepts of green economy and the impact of environmental issues on the activities of the organization			
E2	the definition, goals and principles of green economy			
	<b>Skills: the student can</b>			
E3	list and describe main areas of green economy			
E4	identify the most important problems in the main areas of green economy as well as their causes and effects, and select appropriate methods of preventing them			
	<b>Social competence: the student is ready to</b>			
E5	promote and implement activities of green economy			
Outcome symbols	Methods of verification of learning outcomes	Course form subject to verification		
E1	final test	L		
E2	final test	L		
E3	preparation of projects and presentations	C		
E4	preparation of projects and presentations	C		
E5	preparation of projects and presentations	C		
Basic references	1	Sustainability, climate change and the green economy, ed. by G. Nhamo, V. Mjimba, Africa Institute of South Africa, South Africa 2016.		
	2	Leal Filho, W. et al., Sustainable economic development : green economy and green growth. Springer, Cham 2017.		
	3	Singh, N.Kumar. et al., Green innovation, sustainable development, and circular economy. CRC Press: Taylor & Francis, Boca Raton : London : New York, 2021.		
Supplementary references	1	Hedstrom G.S., Sustainability: what it is and how to measure it., Walter de Gruyter, Boston-Berlin, 2019.		
	2	Transitioning to a green economy. Political economy of approaches in small states, ed. by N. Smith, A. Halton, J. Strachan, Commonwealth, London 2014 ( <a href="http://www.oecd-ilibrary.org">http://www.oecd-ilibrary.org</a> ).		
	3	Towards a green economy: Pathways to sustainable development and poverty eradication, UNEP, 2011.		
	4	Allen C., Clouth S., A guidebook to the green economy, UNDESA, 2012		
Course coordinator	dr inż. Joanna Godlewska	Date:	05.03.2025	