DESCRIPTION OF THE SAFE_10 MODULE IMPLEMENTED AS PART OF THE INTENSIVE FORM OF EDUCATION (IFoE)

Module Name	Regenerative Agriculture			
Language of Instruction	English			
Module Purpose	The purpose of this module is to introduce students to the basics of regenerative agriculture.			
Module Content	Definition and concept of regenerative agriculture (differences from conventional and sustainable agriculture; implications for food security and climate change). Soil as a central element of the system (the role of organic matter and the soil microbiome; soil degradation processes). Key regenerative practices (no-tillage; catch and cover crops; crop rotation and biodiversity).			
Description of learning outcomes	Effect Symbol	Effect Name Methods	Verification and Documentation	Reference to Directional Effect Set
	KNOWLEDGE (graduate knows and understands)			
	W1	Knows the basic principles of regenerative agriculture.	Test	SAFE_W01 SAFE_W02
	W2	Understands the key processes occurring in soil and agroecosystems from a regenerative perspective.	Test	SAFE_W01 SAFE_W02
	SKILLS (graduate can)			
	U1	Identifies practices that increase soil fertility and plant resilience.	Test	SAFE_U01
	U2	Analyzes the impact of technology (including digital agriculture tools) on the effectiveness of regenerative systems.	Test	SAFE_U01
	SOCIAL COMPETENCES (graduate is ready to)			
	K1	Critically evaluates data on regenerative agriculture.	Test	SAFE_K01

"Project ‘Specialist in Agricultural and Food Engineering in the context of Green and Digital Transformation (Twin Transition)’ is financed from the European Funds for Social Development 2021-2027 (EFSD), under the NAWA project entitled ‘Support for the creation and implementation of international education programmes’, project no. FERS.01.05-IP.08-0436/23”.

	K2	Effectively collaborates within an interdisciplinary team.	Activity in class	SAFE_K02
Module crediting method	Passing with a grade			
ECTS credit balance (total, developing practical skills, from classes conducted using distance learning methods and techniques)	Number of contact hours/ECTS points		Number of non-contact hours/ECTS points	
	Lectures (hours 1 ECTS points 0.04) Classes (hours 2 ECTS points 0.08)		Reading literature (hours 1 ECTS points 0.04) Preparing a presentation (hours …. ECTS points ……) Preparing for credit (hours 1 ECTS points 0.04)	
	Total contact hours 3 hr. 0.12 pt. ECTS		**Total non-contact hours 2 hr. 0.08 pt. ECTS**	
Staffing	Prof. Pavol Findura			
Information on the infrastructure ensuring the implementation of learning outcomes	The lecture will be held in a lecture hall equipped with a multimedia projector. The exercises will be conducted in a room equipped with a multimedia projector. The rooms are accessible to people with disabilities.			
Planned teaching methods	Lecture (presentation combined with discussion); practical exercises.			
Recommended reading list	Schreefel, L., Schulte, R. P., De Boer, I. J. M., Schrijver, A. P., & Van Zanten, H. H. E. (2020). Regenerative agriculture – the soil is the base. Global Food Security, 26, 100404. Rhodes, C. J. (2017). The imperative for regenerative agriculture. Science progress, 100(1), 80-129. Giller, K. E., Hijbeek, R., Andersson, J. A., & Sumberg, J. (2021). Regenerative agriculture: an agronomic perspective. Outlook on agriculture, 50(1), 13-25.			

"Project ‘Specialist in Agricultural and Food Engineering in the context of Green and Digital Transformation (Twin Transition)’ is financed from the European Funds for Social Development 2021-2027 (EFSD), under the NAWA project entitled ‘Support for the creation and implementation of international education programmes’, project no. FERS.01.05-IP.08-0436/23”.