LIST OF FIELD-SPECIFIC LEARNING OUTCOMES FOR THE INTENSIVE MODE OF STUDY:
Specialist in Agricultural and Food Engineering in the context of Green and Digital Transformation (Twin Transition)

Learning outcomes codes	**Description of learning outcomes**	**Methods of verification and documentation of learning outcomes**	**Reference to**		
			universal first stage descriptors of the PQF – levels 6-8 *(component code of the description)*	second stage descriptors of the PQF typical for qualifications attained within higher education after the awarding of full qualifications – levels 6-8 *(component code of the description)*	second stage descriptors of the PQF typical for qualifications attained in vocational education – levels 6-8 *(component code of the description)*
Knowledge: The graduate knows and understands:					
SAFE_W01	modern technologies, processes, and methods used in agricultural and food sciences, including current research and development trends, particularly in the field of green and digital transformation	Pass with a grade or a class report. Record of assessment or archiving of final assignments or attendance list.	L6U_K L7U_K	L6H_KS L7H_KX	L6V_KT
SAFE_W02	the principles of operation of technological and biological systems in the context of sustainable development, eco-energy, circular economy, food safety, and environmental protection		L6U_K	L6H_KS L6H_KX	L6V_KP L6V_KO
SAFE_W03	an in-depth level of relationships between biological, chemical, technological, and economic factors influencing the efficiency of processes in agriculture and the food industry		L7U_K	L7H_KS L7H_KX	L7V_KP L7V_KO
SAFE_W04	methods and theories of data acquisition, analysis, and interpretation, as well as principles of risk assessment, quality evaluation, and innovativeness of technological solutions		L7U_K	L7H_KS L7H_KX	L7V_KT

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Skills: The graduate is able to					
SAFE_U01	independently identify, analyse, and solve technological, environmental, and organisational problems in agriculture and food processing using interdisciplinary knowledge	Pass with a grade or a class report. Record of assessment or archiving of final assignments or attendance list.	L6U_S L7U_S	L6H_SU	L6V_SI L7V_SI
SAFE_U02	select, apply, and critically evaluate modern methods, research tools, and technologies used in the agri-food economy and food analysis, including in the field of eco-energy and the circular economy		L7U_S	L6H_SU	L6V_SM
SAFE_U03	develop, analyse, and interpret experimental or production data using IT, statistical, and digital tools, drawing justified practical conclusions		L6U_S	L6H_SO L7H_SU	L6V_SI L7V_SI
SAFE_U04	prepare a report or presentation of research results and argue their position in discussion using up-to-date knowledge		L7U_S	L7H_SU	L7V_SI
Social Competences: The graduate is ready to					
SAFE_K01	critically assess their own knowledge and the impact of their professional activities on the environment, health, and society, and to adhere to the principles applicable in their professional field	Statements and discussion	L7U_C	L7H_CE	L7V_CF
SAFE_K02	effectively cooperate in an interdisciplinary team, communicate with representatives of various sectors (agriculture, industry, administration), and initiate actions for the public interest		L7U_C	L6H_CR	L6V_CC

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