EDUCATIONAL OUTCOMES		GENERAL AND DIRECTIVE OBLIGATORY COURSES																																	
Symbol	**Learning outcomes for the major: Logistics II specjalty: Industrial Systems Engineering**	OSH (Occupational Safety & Health)	Finances	Innovative entrepreneurship	Intellectual property protection	Introduction to Logistics	Quality Management in Logistics	Logistics and marketing management	Customer-Oriented Logistics and Distribution Management	Computer science and data analysis in logistics	Data-Driven Logistics and Decision Support Systems	Foreign language 1 (English in logistics)	Foreign language 2 (Polish in logistics)	Information systems and logistics services	Production and Service Management in Logistics	Design of Processes and Logistic systems	Logistics Process Optimization and Systems Improvement	Supply Chain Management	Organization and Management of Transport Processes	Law, insurance and ethics in logistics	6 sigma method in sustainable logistics	Logistic outsourcing	Warehouse and distribution systems	Logistics Facilities and Distribution Management	Models and Algorithms for Logistics and Transport	*Modeling and Simulation of Production Systems in Logistics Systems*	*Mathematical Modeling in Warehouse Management*	*Quality and Maintenance Management in logistics systems*	*International Logistics*	*Simulation models based on SED (Discrete Event Systems)*	*Operational research in warehouse management*	*Management and optimization of production*	*Transport systems*	Internship	Diploma proseminar	Diploma seminar	
K2_W01_L_P	Proficiently identify, describe and analyze economic and organizational determinants of logistics activities, in particular in the field of controlling and assessing logistics processes		X	X			X									X	X	X				X	X	X		X	X	X					X	X	14
K2_W02_L_P	Demonstrate proficiency in strategic management, including the principles of analyzing, diagnosing and making changes in business entities. Explain and apply methods of strategic analysis of the company and its environment														X									X		X				X	X				5
K2_W03_L_P	Explain and apply proficiently modern methods and tools of logistic management. Explain the relationships and dependencies between logistics and other functional areas of the company, also in the international scale			X		X									X			X	X			X			X	X			X		X				10
K2_W04_L_P	Present and explain various data collection techniques; proficiently explain the importance of IT systems in logistics management				X					X	X			X	X						X				X			X		X			X	X	11
K2_W05_L_P	Explain selected methods of designing logistic processes and systems, methods of solving decision problems and methods and techniques used in logistics planning. Proficiently explain them in English			X		X				X	X					X	X	X			X							X		X			X	X	13
K2_W06_L_P	Explain the essence of the logistics service, including the conditions and principles of marketing management of logistics services							X	X					X	X			X				X	X	X	X				X							10
K2_W07_L_P	Proficiently identify and describe the essence, importance and rules of logistics in crisis situations. Explain in detail business insurance and logistics services													X	X					X					X			X		X					6
K2_W08_L_P	Explain and apply the technology and transport infrastructure as well as the basics of design and analysis of logistics processes for the close range transport and storage									X	X								X				X	X							X				6
K2_W09_L_P	Explain and apply the norms of law regulating the activities of economic entities in Poland and in the EU. Explain and apply the cultural and legal conditions of international logistics, including the principles of protection of industrial property and copyright	X			X		X	X	X										X	X									X				X	X	10
K2_W10_L_P	Explain and apply proficiently economic, technical, legal and organizational issues, related to the specialty of studies. Proficiently describe and aply the methods and tools of management, including planning, organizing, controlling, analyzing and improving selected processes and systems		X		X											X	X			X	X									X					8
K2_W11_L_P	Proficiently identify and explain practical application of the knowledge proper to the logistics in cultural and media activities							X	X			X	X																			X				5
K2_W12_L_P	Explain and apply the basics of scientific research methodology and principles of creating research instruments, uses scientific terminology at an advanced level of English				X							X	X														X							X	X	6
K2_U01_L_P	Utilize integrated knowledge from various fields, as well as to select appropriate methods and tools for identify, interpret, describe and analyze problems and areas of logistics and its conditions		X			X		X	X	X	X			X	X							X	X	X	X	X	X	X		X	X			X	X	19
K2_U02_L_P	Demonstrate proficiency in planning, organize and manage business ventures. Utilize integrated knowledge to integrate knowledge from various fields in order to create innovative solutions for complex and unusual problems			X		X													X		X		X	X		X						X	X		9
K2_U03_L_P	Demonstrate proficiency to initiate and manage logistics projects. Utilize ability to formulate and present in English the general and functional strategies for enterprises and logistics services on the domestic and international market					X	X	X	X	X	X	X		X	X			X	X				X	X	X			X		X					X	17
K2_U04_L_P	Utilize ability apply the theoretical knowledge to create simple models of decision problems and the ability to model and predict the course of selected logistics processes in the enterprise, using quantitative methods and IT tools									X	X				X	X	X				X				X	X	X			X	X				11
K2_U05_L_P	Utilize ability to choose the appropriate methods and tools which are necessary to control processes and logistic systems, as well as to assess their effectiveness, efficiency and suitability	X		X		X	X							X		X	X	X				X				X	X	X					X	X	14
K2_U06_L_P	Demonstrate proficiency to identify opportunities for the development of logistics oriented and integrated business management as well as trends in the market of logistic services, including the international dimension.			X															X	X									X						4
K2_U07_L_P	Utilize ability to plan and organize technological processes in transport. Demonstrate basic skills in designing and analyzing processes in logistic systems for the close range transport and storage																	X					X	X					X			X			5
K2_U08_L_P	Demonstrate proficiency to use legal norms to solve business problems. Can apply the knowledge to perform tasks in unpredictable and crisis conditions, and present them in an oral or written form in English				X															X												X			2
K2_U09_L_P	Utilize integrated knowledge to identify problems and acquire data in order to describe, analyze and evaluate specific processes and tasks appropriate for the studied educational specialty				X	X				X	X				X								X	X	X		X			X	X	X			X	X	14
K2_U10_L_P	Demonstrate skills to prepare oral presentations and written studies, mainly in English, regarding the identification, analysis and evaluation of phenomena and processes taking place in logistics companies				X							X	X																					X	X	5
K2_U11_L_P	Demonstrate proficiency language skills according to the B2+ level of CEFR (Common European Framework of Reference for Languages)											X	X																							2
K2_U12_L_P	Demonstrate awareness the lifelong learning to develop professional, personal and social competencies; inspire and organize the learning process for the other people																																			0
K2_U13_L_P	Demonstrate proficiency in the team work interaction, also in an intercultural environment, playing different roles in it																					X										X				2
K2_U14_L_P	Demonstrate proficiency to develop solutions for specific problems, using selected standards and rules (technical, legal, organizational) appropriate for the studied specialty and present them in English in an oral or written form											X	X							X	X	X						X								6
K2_U15_L_P	Utilize ability to design a complex device, object, system or process related to logistics and implement this project, at least in part, using the right methods, techniques and tools, adapting existing or developing new methods, techniques and tools for this purpose			X	X													X											X				X	X	6
K2_K01_L_P	Demonstrate proficiency to identify the priorities for the implementation of the task specified by itself or by others						X									X	X	X				X	X	X		X	X				X					10
K2_K02_L_P	Demonstrate proficiency to identify and resolve dilemmas related to the profession; is aware of the importance of acting in a professional manner and also follow the rules of professional ethics	X			X	X								X	X				X	X			X	X	X	X					X					13
K2_K03_L_P	Utilize ability to think and act in an entrepreneurial way and is prepared to create and organize economic projects			X				X	X	X	X								X									X							7
K2_K04_L_P	Demonstrate proficiency to the independently and critically acquire knowledge and skills, as well as to supplement and develop them using other fields of science; Demonstrate ability to share knowledge with the other people			X								X	X														X			X			X	X	X	8
K2_K05_L_P	Demonstrate proficiency to cooperate for the preparation of economic projects, taking into account legal, economic and technical aspects and understand the effects of the actions taken, including their impact on the environment and the related responsibility for the decisions made.		X	X	X	X		X	X	X	X			X	X	X	X	X		X	X	X	X	X	X	X		X		X		X		X	X	26
	WIEDZA	1	2	3	4	2	2	3	3	3	3	2	2	3	5	3	3	4	3	3	3	3	3	3	5	2	3	4	3	2	4	3	1	1	5	5	
	UMIEJĘTNOŚCI	1	1	4	4	5	2	2	2	4	4	4	3	3	4	2	2	4	3	3	3	4	5	5	4	3	4	3	3	3	4	3	2	2	5	6	
	KOMPETENCJE SPOŁECZNE	1	1	3	2	2	1	2	2	2	2	1	1	2	2	2	2	2	2	2	1	2	3	3	2	3	2	1	2	1	2	1	1	2	2	2	