

Scientific discipline: Management and Quality Sciences
 Field of study: LOGISTICS
 study level: Master's Studies
 profile: practical
 form of study: Full time studies
 speciality: Industrial Systems Engineering
 academic year: 2023/2024, 2024/2025

CURRICULUM IULT

LO/2023/SDS/S/P/Eng.

index	Courses	Basic information				total number of hours	Indicators characterizing the program					Balance of student workload (in hours)													ECTS/CREDITS				
		course type	level	academic year	Semester I-IV		A	B	C	D	E	Classes requiring direct participation of academic teachers and students					total number of hours	Student's independent work							total number of hours	total number of hours	total number of credits		
												lecture	elearning	tutorials	practice	laboratories		internship	Exams	preparation for lectures	clear. asyn.	preparation for tutorials	projects preparation	preparation for laboratory				diploma thesis	preparation of rigor
Semester I																													
	Course name/basic courses					310	15,12	11,12	17	4	9	130	0	104	0	76	0	68	378	98	32	110	0	14	0	211	465	843	30
23SM.P.L.A.1	OSH (Occupational Safety & Health)	O	Z	I	I	4	0,3	0,0				4					4	8								0	8	0	
23SM.P.L.A.2	Finances	O	E	I	I	28	1,4					14		14			8	36	8						18	38	74	2	
23SM.P.L.A.3	Innovative entrepreneurship	O	E	I	I	32	1,6	1,1	3			16		16			8	40	12						25	49	89	3	
23SM.P.L.A.4	Intellectual property protection	O	E	I	I	30	1,5	1,3	3			16		14			8	38	16						22	56	94	3	
23SM.P.L.A.5	Introduction to Logistics	O	E	I	I	32	1,6	1,4	4			16		16			8	40	16						26	62	102	4	
23SM.P.L.A.6	Quality Management in Logistics	O	E	I	I	30	1,5	0,6	2			16		14			8	38	22						20	42	80	3	
23SM.P.L.A.7.1	Logistics and marketing management																												
23SM.P.L.A.7.2	Customer-Oriented Logistics and Distribution Management	E	E	I	I	54	2,5	2,0	5			24		30			8	62	12						32	64	126	5	
23SM.P.L.A.8.1	Computer science and data analysis in logistics																												
23SM.P.L.A.8.2	Data-Driven Logistics and Decision Support Systems	E	E	I	I	40	1,9	1,2		4	4	24					8	48	12				14		26	52	100	4	
23SM.P.L.A.9	Foreign language 1 (English in logistics)	O	PG	I	I	30	1,4	1,8									4	34			16	14			22	52	86	3	
23SM.P.L.A.10	Foreign language 2 (Polish in logistics)	O	PG	I	I	30	1,4	1,8									4	34			16	14			20	50	84	3	
Total semester I						310	15,12	11,12	17	4	9	130	0	104	0	76	0	68	378	98	32	110	0	14	0	211	465	843	30
Semester II																													
	Course name/basic courses					234	22	22	24	4	4	66	0	60	0	108	0	40	274	39	0	52	0	98	0	134	323	597	22
23SM.P.L.A.11	Information systems and logistics services	O	E	I	2	44	2,1	2,4	4			16		12		16		8	52	8		14		18	16	56	108	4	
23SM.P.L.A.12	Production and Service Management in Logistics	O	E	I	2	44	2,1	2,7		4		14		14		16		8	52	9		12		26	18	65	117	4	
23SM.P.L.A.13.1	Design of Processes and Logistic systems	E	E	I	2	48	2,2	2,5	4		4	18		14		16		8	56	10		10		22	18	60	116	4	
23SM.P.L.A.13.2	Logistics Process Optimization and Systems Improvement																												
23SM.P.L.A.14	Supply Chain Management	O	E	I	2	38	1,8	1,4	4			18		20			8	46	12		16				26	54	100	4	
23SM.P.L.A.15	Foreign language 1 (English in logistics)	O	PG	I	2	30	1,4	1,8									4	34						16	28	44	78	3	
23SM.P.L.A.16	Foreign language 2 (Polish in logistics)	O	PG	I	2	30	1,4	1,8									4	34						16	28	44	78	3	
optional specialty courses						0	2	2	3	0	4	24	0	0	0	24	0	8	56	10	0	0	0	16	0	14	40	96	3
23SM.P.L.B.IEP.1.1	Modeling and Simulation of Production Systems in Logistics Systems																												
23SM.P.L.B.IEP.1.2	Mathematical Modeling in Warehouse Management	E	E	I	2	0	2,2	2,0	3		4	24					8	56	10					16	14	40	96	3	
23SM.P.L.C.1	Internship	O	PG	I	2	0	6,6	5,3	6								160	4	164						6	6	170	6	
Total semester II						234	31	29	33	4	8	90	0	60	0	132	160	52	494	49	0	52	0	114	0	154	369	863	31
Semester III																													
	Course name/basic courses					136	7	6	9	0	0	56	0	50	0	30	0	32	168	42	0	52	0	30	0	92	217	385	13
23SM.P.L.A.17	Organization and Management of Transport Processes	O	E	II	3	46	2,2	2,2	4			16		14		16		8	54	18		8		16	20	62	116	4	
23SM.P.L.A.18	Law, insurance and ethics in logistics	O	E	II	3	18	1,0	1,0	2			8		10			8	26	4		15				20	39	65	2	
23SM.P.L.A.19	6 sigma method in sustainable logistics	O	E	II	3	44	2,1	2,6				16		14		14		8	52	8		22		14	26	71	123	4	
23SM.P.L.A.20	Logistic outsourcing	O	E	II	3	28	1,4	0,8	3			16		12			8	36	12		7				26	45	81	3	
Two optional specialty courses						102	5	4	11	0	10	48	0	28	0	26	0	24	126	20	0	32	0	36	0	48	136	262	9
23SM.P.L.B.IEP.2.1	Quality and Maintenance Management in logistics systems																												
23SM.P.L.B.IEP.2.2	The specificity of Employer Branding in the logistics industry	E	E	II	3	34	1,7	2	5		3	16		8		10		8	42	6		10		10	14	40	82	3	
23SM.P.L.B.IEP.3.1	Simulation models based on SED (Discrete Event Systems)	E	E	II	3	36	1,8	2,2	3		4	16		12		8		8	44	8		12		16	18	54	98	3	
23SM.P.L.B.IEP.3.2	Operational research in warehouse management																												
23SM.P.L.B.IEP.4.1	Management and optimization of production	E	E	II	3	32	1,6	0,0	3		3	16		8		8		8	40	6		10	0	10	16	42	82	3	
23SM.P.L.B.IEP.4.2	Integration systems in logistics																												
23SM.P.L.C.2	Diploma proseminar	O	PG	II	3	16	0,8	1,3	2							0	16		4	20				16	22	38	58	2	
23SM.P.L.C.3	Diploma Thesis	O	PG	II	3	0	0,1	0,3									2	2		2	2				9	14	23	25	1
23SM.P.L.C.4	Internship	O	PG	II	3		6,6	5,3	6								160	4	164						6	6	170	6	
Total semester III						254	19	17	28	0	10	104	0	78	0	72	160	66	480	62	0	84	0	82	9	182	420	900	31
Semester IV																													
	Course name/basic courses					98	4,56	4,08	10	5	10	44	0	22	0	32	0	16	114	44	0	28	0	34	0	42	148	262	10
23SL.P.L.A.21.1	Warehouse and distribution systems	E	E	II	4	52	2,4	1,8	5		5	22		14		16		8	60	22		16		12	18	68	128	5	
23SL.P.L.A.21.2	Logistics Facilities and Distribution Manager																												
23SL.P.L.A.22.1	Models and Algorithms for Logistics and Transport	O	E	II	4	46	2,2	2,3	5		5	22		8		16		8	54	22		12		22	24	80	134	5	
23SL.P.L.A.22.2	Optimization Methods and Decision Models in Logistics and Transport																												
23SM.P.L.C.5	Internship	O	PG	II	4	0	6,6	5,3	6								160	4	164						6	6	170	6	
23SM.P.L.C.6	Diploma seminar	O	PG	II	4	16	0,8	0,6	3								0	16		4	20	14			44	58	78	3	
23SM.P.L.C.7	Diploma Thesis	O	PG	II	4	0	3,7	1,7									80	12	92						46	118	164	256	10
Total semester IV						114	16	12	19	5	10	44	0	22	0	48	240	36	390	58	0	28	0	34	46	210	376	766	29
Total studies: hours / ECTS credits / %						912	81	69	97	13	37	368	0	264	0	328	560	222	1742	267	32	274	0	244	55	757	1630	3372	121

total ECTS

A - total number of ECTS points that the student must obtain in classes requiring direct participation of academic teachers and students (required => 50% for full-time studies)	81	67,27%
B - total number of ECTS points that the student must obtain as part of practical classes, including laboratory and project classes	69	57,9%
C - modules of classes related to practical professional preparation, which were assigned ECTS points exceeding 50% of the total number of points, serving the student to acquire practical skills and social competences	97	
D - the total number of ECTS points that a student must obtain as part of basic science classes to which the learning outcomes for a specific field, level and education profile relate	13	
E - percentage of ECTS points that the student obtains by completing elective education modules (required => 30%)		30,8%

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