

Course name ¹	Technical Logistics of Agro-food systems					Course code		MTNIA 207	
Course type ²	DA	Category ³	DI	Year of study	II	Semester	2	Number of credit points	6

Faculty	Mechanics				Number of teaching and learning hours ⁴				
Field	Mechanical Engineering				Total	L	T	LB	P IS
Specialization	Non-polluting techniques in agro-food industry				144	28	-	-	14 102

Pre-requisites from the curriculum ⁵	Compulsory	Quality Engineering, Agriculture Equipments, Food Industry Equipments and Devices, Basic Processing of Agriculture Products, Quality of Agro-Food Industry Products and Processes
	Recommended	Theoretical Mechanics, Special Mathematics

General objective ⁶	Competences in the field of technical logistics used in agro-food industry
Specific objectives ⁷	<ul style="list-style-type: none"> Analysis of reliability, maintenance and service-ability models. Designing maintenance programs, working indices, equipments used
Course description ⁸	<p>Experimental research of technological operations. Designing the experiment</p> <p>Mathematical modeling of processes. Analysis of variance of the mathematical model.</p> <p>Model with a single variable and multivariable models</p> <p>Reliability and maintenance of industrial systems. Concepts, defects and failures</p> <p>Maintenance and maintainability technical systems. Types of maintenance</p> <p>Develop maintenance programs. Ways of organizing maintenance</p> <p>Factors that determine the performance indicators maintenance</p> <p>Modeling service-ability</p> <p>Lubricants based organic vegetable oils</p>

Assessment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment				
	Activity during projects		project phase	40 %
Final assessment	Final assessment form ¹¹	examination	session	60 %
	Examination procedures and conditions: 1. Theoretical knowledge acquired one (quantity, correctness, accuracy)			

Course organizer	Danuta Cozma, EngD, Professor	
Teaching assistants	Danuta Cozma, EngD, Professor	

¹Course name from the curriculum²DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)³DI – imposed, DO – optional, DL – facultative (from the curriculum)⁴Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)⁵According to 4.1 – Pre-requisites - from the Course guide – extended form⁶According to 7.1 from the Course guide – extended form⁷According to 7.2 from the Course guide – extended form⁸Short description of the course, according to point 8 from the Course guide – extended form⁹For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period¹⁰A minimum grade might be imposed for some assessment stages¹¹Exam or colloquium