

COURSE GUIDE – short form

Academic year .2014 -2015

Course name ¹	Tractors, Vehicles and Propelling Systems of Agricultural Machines					Course code	MIAIA 309.DI.DS		
Course type ²	DS	Category ³	DI	Year of study	III	Semester	6	Number of credit points	5

Faculty	of Mechanics				Number of teaching and learning hours ⁴				
Field	Mechanical Engineering				Total	L	T	LB	P IS
Specialization	Agricultural and Food Industry Tools and Devices				120	42	-	42	- 36

Pre-requisites from the curriculum ⁵	Compulsory	Machine parts, Thermodynamics, Fluid mechanics and hydraulic machines							
	Recommended	Hydraulic and Pneumatic							

General objective ⁶	Explore and analyze the construction, operation and calculation of internal combustion engines, propulsion systems used in agriculture and food industry								
Specific objectives ⁷	<ul style="list-style-type: none"> Explore all components engine, transmission, steering, braking, suspension, tractors and cars 								
Course description ⁸	Role, purpose and classification of vehicles used in agriculture and food industry. Energetic source of the vehicle. Internal combustion engine. Transmission in tractors and vehicles. Running equipment of vehicles. Steering equipment of vehicles. Braking equipment of vehicles. Suspension of tractors and vehicles. Body of tractors and vehicles. Working equipment of vehicles. Technological alternatives, constructive types of vehicles used in agriculture and food industry.								

Assessment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment				
	Activity during tutorials/laboratory works/		weekly 1-14	30 %
Final assessment	Final assessment form ¹¹	examination	session	70 %
	Examination procedures and conditions: 1. tests knowledge of the construction tractors and propulsion systems.; percent of the final grade 60 % 2. theoretical demonstration of a parameter - percent of the final grade 40 %			

Course organizer	Dănuță COZMA, Eng.Dr, Professor			
Teaching assistants	Ioan Băisan, Associate Eng Dr			

¹Course name from the curriculum

² DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³ DI – imposed, DO –optional, DL – facultative (from the curriculum)

⁴ Points 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)

⁵ According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶ According to 7.1 from the Course guide – extended form

⁷ According to 7.2 from the Course guide – extended form

⁸ Short description of the course, according to point 8 from the Course guide – extended form

⁹ For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰ A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium