



Faculty of ENVIRONMENTAL ENGINEERING AND FOOD SCIENCE  
 Domain: Environmental Engineering  
 Study program: Engineering and Environmental Protection in Agriculture  
 Duration of studies: 4 years  
 Education form: continuous (B.Sc.)  
 Code: FMA-LIM



## Programme Syllabus - Engineering and Environmental Protection in Agriculture

### Semester 1

Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS (credits)
		Course	Seminary	Applications	Project		
LIM1BF01	<i>Mathematics Algebra and Analysis</i>	3	3	-	-	E	6
LIM1BF02	<i>Analytic and Inorganic Chemistry</i>	2	-	3	-	E	5
LIM1BF03	<i>Physics 1</i>	2	-	3	-	E	5
LIM1BF04	<i>Applied Informatics</i>	3	-	2	-	C	5
LIM1BD05	<i>Ecology and Environmental Protection</i>	2	2	-	-	E	6
LIM1BC06	<i>Foreign Language 1 - French - English</i>	-	2	-	-	A/R	3
LIM1BC07	<i>Physical Education and Sport</i>	-	1	-	-	A/R	3



## First year

### Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS
		Course	Seminary	Applications	Project		
LIM1BF09	<i>Theory of Probabilities and Mathematical Statistics</i>	3	2	-	-	E	5
LIM1BF10	<i>Chemistry 2</i>	2	-	3	-	E	5
LIM1BF11	<i>Technical Drawing and Infographics</i>	2	-	3	-	C	6
LIM1BD12	<i>Physics 2</i>	3	-	2	-	E	5
LIM1BS13	<i>Botany and Plant physiology</i>	2	-	2	-	E	6
LIM1BC14	<i>Foreign Language 1 – French / English</i>	-	2	-	-	A/R	3
LIM1BC15	<i>Physical Education and Sport</i>	-	1	-	-	A/R	3



## Second year

### Semester 1

Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS (credits)
		Course	Seminary	Applications	Project		
LIM2BD01	<i>Mechanics of Fluids</i>	2	2	-	-	E	6
LIM2BD02	<i>Elements of Mechanical Engineering</i>	2	2	-	-	E	5
LIM2BD03	<i>General and Ameliorative Pedology</i>	3	-	2	1	E	6
LIM2BD04	<i>Biology of the Environment</i>	3	-	3	-	E	5
LIM2BC05	<i>Foreign Language 2 – French / English</i>	-	2	-	-	A/R	3
LIM2BC06	<i>Physical Education and Sport</i>	-	1	-	-	A/R	3
LIM2OD07/08	<i>Natural resources /Remote sensing and atmospheric risks (optional)</i>	2	2	-	-	C	5



## Second year



### Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS (credits)
		Course	Seminary	Applications	Project		
LIM2BD12	<i>Materials Science and Engineering</i>	2	2		-	E	4
LIM2BD13	<i>Land Survey (Topography)</i>	2	-	2	1	E	4
LIM2BD14	<i>Ecotoxicology</i>	2	-	2	-	C	4
LIM2BD15	<i>Hydrology</i>	2	2	-	-	E	4
LIM2BS16	<i>Technologies for atmospheric protection</i>	2	-	1	-	E	3
LIM1BC17	<i>Physical Education and Sport</i>	-	1	-	-	A/R	3
LIM2BC18	<i>Foreign Language 2 – French/- English</i>	-	2	-	-	A/R	2
LIM2BS19	<i>Practice of domain</i>	3 weeks x 40 hours = 120 hours				C	6
LIM2OS20/21	<i>Methods of diagnostics for environmental quality / Microbiology and Enzymology (optional)</i>	2	-	1	-	C	3



**Third year**  
*Semester 1*



Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS (credits)
		Course	Seminary	Applications	Project		
LIM3BS01	<i>Soil Erosion Control, Irrigation and Drainage</i>	2	-	-	2	E	5
LIM3BS02	<i>Ecological Planning and Organization of the Territory</i>	3	-	-	2	E	5
LIM3BS03	<i>Water Supply and Sewerages</i>	2	-	-	2	E	4
LIM3BS04	<i>Amelioration of Urban Anthropic Ecosystems</i>	2	-	-	1	C	4
LIM3BS05	<i>Grassland Ecosystems</i>	2	1	-	-	E	4
LIM3BS06	<i>Ecological Technologies in Livestock Breeding</i>	2	2	-	-	C	4
LIM3OS07/08	<i>Pollution and depollution in agriculture / Protection of aquatic ecosystems (optional)</i>	2	1	-	-	C	4



### Third year

#### Semester 2



Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS (credits)
		Course	Seminary	Applications	Project		
LIM3BD11	<i>Constructions for Environmental Engineering Works</i>	3	-	-	2	E	5
LIM3BS12	<i>Plant Protection and Ecological Impact</i>	3	-	2	-	E	5
LIM3BS13	<i>Agricultural Ecosystems</i>	3	-	2	-	E	4
LIM3BS14	<i>Integrated Management of Wastes</i>	3	3	-	-	C	4
LIM3BS15	<i>Forest Ecosystems</i>	2	-	1	-	E	3
LIM3BS16	<i>Specialty Practice</i>	3 weeks x 40 hours = 120 hours				C	6
LIM3OC17/ LIM3OS18	<i>Ethics and Academic Integrity / Bio-combustibles (optional)</i>	1	-	1	-	C	3



## Fourth Year

### Semester 1

Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS (credits)
		Course	Seminary	Applications	Project		
LIM4BD01	<i>Monitoring of Environmental Factors</i>	3	-	3	-	C	5
LIM4BD02	<i>Automatization of Technological and Biotechnological Processes</i>	2	2	-	-	E	5
LIM4BS03	<i>Environmental Impact Assessment</i>	2	-	-	1	E	5
LIM4BS04	<i>Technology of Environmental Engineering Works</i>	3	2	-	-	E	5
LIM4BS05	<i>Wastewater Treatment Plants and Water Quality Protection</i>	2	1	-	2	E	5
LIM4OS06/07	<i>Impact of genetically modified organisms/ Ecological zootechny (optional)</i>	2	-	2	-	C	5



## Fourth Year

### Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/P*	ECTS (credits)
		Course	Seminary	Applications	Project		
LIM4BS08	<i>Environmental Audit</i>	2	2	-	-	E	4
LIM4BS09	<i>Conservation of Biodiversity</i>	3	-	2	-	E	4
LIM4BD10	<i>Management of the Environment</i>	2	2	-	-	E	4
LIM4BS11	<i>Geographical Information Systems</i>	2	2	-	-	E	4
LIM4BS12	<i>Sources of Renewable Energy</i>	2	2	-	-	C	4
LIM4BD13	<i>Practice for Elaboration of the Graduation Project</i>	2 weeks x 8 hours/day x 4 days = 64 hours				C	6
LIM4BD14	<i>Elaboration of the Graduation Project</i>	2 weeks x 7 hours x 4 days = 56 hours				C	4

\* E - exam; C - colloquy; P – project.

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