



Faculty of ENVIRONMENTAL ENGINEERING AND FOOD SCIENCE

Domain: Chemical Engineering

Study program: Control and Security of Food Products

Duration of studies: 4 years

Education form: continuous (B.Sc.)

Code: FMA-LCS



Programme Syllabus - Control and Security of Food Products

First year (2016 – 2017)

Semester I

Code	Discipline	No. of hours				Evaluation form E/C/P*
		Course	Seminary	Applications	Project	
LCS 1 B F 01	<i>Linear Algebra and Mathematical Analysis</i>	2	2	-	-	E
LCS 1 B F 02	<i>Physics</i>	2	-	2	-	E
LCS 1 B F 03	<i>Inorganic Chemistry</i>	2	-	2	-	E
LCS 1 B F 04	<i>Technical Drawing and Infographics</i>	2	-	2	-	C
LCS 1 B F 05	<i>Applied Informatics</i>	2	-	2	-	E
LCS 1 B F 06	<i>Analytical Chemistry</i>	2	-	3	-	E
LCS 1 B C 07	<i>Foreign Language - English / French</i>	-	2	-	-	A/R
LCS 1 B C 08	<i>Physical Education and Sport</i>	-	1	-	-	A/R

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Semester 2

Code	Discipline	No. of hours				Evaluation form
		Course	Seminary	Applications	Project	E/C/P*
LCS 1 B F 09	<i>Theory of Probabilities and Mathematics Statistics</i>	2	2	-	-	E
LCS 1 B F 10	<i>Organic Chemistry</i>	3	-	3	-	E
LCS 1 B D 11	<i>Physical and Colloidal Chemistry</i>	3	-	3	-	E
LCS 1 B D 12	<i>Mechanics and Strength of Materials</i>	2	2	-	-	E
LCS 1 B D 13	<i>Fundamentals of Chemical Engineering</i>	2	-	2		E
LCS 1 B C 14	<i>Foreign Language - English / French</i>	-	2	-	-	A/R
LCS 1 B C 15	<i>Physical Education and Sport</i>	-	1	-	-	A/R

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Second year (2016 – 2017)
Semester I

Code	Discipline	No. of hours				Evaluation form
		Course	Seminary	Applications	Project	E/C/P*
LCS 2 B D 01	<i>Transfer Phenomena</i>	2	2	-	-	E
LCS 2 B D 02	<i>Elements of Mechanical Engineering (Machinery Parts)</i>	2	1	-	2	C
LCS 2 B S 03	<i>General Microbiology</i>	3	-	2	-	E
LCS 2 B S 04	<i>Food Biochemistry</i>	3	-	3	-	E
LCS 2 B C 05	<i>Physical Education and Sport</i>	-	1	-	-	A/R
LCS 2 B C 06	<i>Foreign Language - English / French</i>	-	2	-	-	A/R
LCS 2 O D 07	<i>Electrochemistry and Corrosion</i>	3	-	2	-	C

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Semester 2

Code	Discipline	No. of hours				Evaluation form
		Course	Seminary	Applications	Project	E/C/P*
LCS 2 B D 10	<i>Unit Operations in Food Industry</i>	3	3	-	-	E
LCS 2 B D 11	<i>Catalysis and Catalysts</i>	2	-	2	-	E
LCS 2 B S 12	<i>Food Microbiology</i>	2	-	2	-	E
LCS 2 B S 13	<i>Human Nutrition and Wholesomeness of Food Products</i>	3	-	2	-	E
LCS 2 B C 14	<i>Physical Education and Sport</i>	-	1	-	-	A/R
LCS 2 B C 15	<i>Foreign Language - English / French</i>	-	2	-	-	A/R
LCS 2 B D 16	<i>Practice</i>	3 weeks x 40 hours = 120 hours				C
LCS 2 O S 17	<i>Food Chemistry</i>	2	-	2	-	C

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Third year (2016 – 2017)
Semester I

Code	Discipline	No. of hours				Evaluation form E/C/P*
		Course	Seminary	Applications	Project	
LCS 3 B F 01	<i>Rheological and Textural Methods for Control of Food Products</i>	2	-	2	-	C
LCS 3 B D 02	<i>Methods of Instrumental Analysis in Control of Quality of Food Products</i>	3	-	3	-	E
LCS 3 B D 03	<i>Materials Science</i>	2	2	-	-	E
LCS 3 B S 04	<i>Hygiene in Food Industry</i>	2	-	1	-	C
LCS 3 B S 05	<i>Sovereignty, Food Security and Food Safety</i>	2	1	-	-	E
LCS 3 B S 06	<i>Technologies and Control in Extractive Industries</i>	3	-	2	-	E
LCS 3 O S 07	<i>Enzymatic Methods of Analysis of Food Products</i>	2	-	2	-	C

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Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/P*
		Course	Seminary	Applications	Project	
LCS 3 B D 10	General Biotechnology	3	-	3	-	E
LCS 3 B S 11	Technologies and Control in Meat Products Industry	3	-	2	-	E
LCS 3 B S 12	Technologies and Control in Fermentative Industries	3	-	2	-	E
LCS 3 B S 13	Technologies and Control in Dairy Products Industry	3	-	2	-	E
LCS 3 B S 14	Traceability in Food Industry	2	1	-	-	C
LCS 3 B D 15	Practice	3 weeks x 40 hours = 120 hours				C
LCS 3 O D 16	Equipments in Food Industry	2	2	-	1	C

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Fourth year (2016 – 2017)
Semester I

Code	Discipline	No. of hours				Evaluation form
		Course	Seminary	Applications	Project	E/C/P*
LCS4S01B	<i>Sensoriel Analysis of Food Products</i>	2	-	2	-	E
LCS4S02B	<i>Technologies and Control in Industry of Vegetable Food Products</i>	3	-	2	-	E
LCS4S03B	<i>Technologies and Control in Breadmaking, Pasta and Biscuits Industry</i>	3	-	2	-	E
LCS4S04B	<i>Techniques of Evaluation of Food Products Counterfeiting</i>	2	-	2	-	E
LCS4S05B	<i>Analysis and Identification of Risks in Food Products</i>	1	-	-	2	C
LCS4S06O	<i>Nanomaterials</i>	2	2	-	-	C

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Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/P*
		Course	Seminary	Applications	Project	
LCS4D08B	Management and Marketing in Food Industry	2	2	-	-	C
LCS4S09B	Control of Nutritional Supplements	2		1	-	E
LCS4S10B	Politics and Global Strategies of Food Security	2	1	-	-	E
LCS4S11B	Additives and Ingredients in Food Industry	2	-	2	-	E
LCS4D12B	Automatization of Technological Processes in Food Industry	2	2	-	-	E
LCS4S13B	Practice for Elaboration of the Graduation Project	4 weeks x 6 hours x 5 days = 120 hours				C
LCS4S14O	Remediation of Effluents from Food Industry	2	-	2	-	C

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

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