



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

First year (2017 – 2018)

Semester I

Code	Discipline	No. of hours				Evaluation form E/C/V
		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/V
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 (2017 – 2018)
Semester I

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

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Third year (2017 – 2018)

Semester I

Code	Discipline	No. of hours				Evaluation form
		Course	Seminary	Applications	Project	E/C/V
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/V
		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 (2017 – 2018)

Semester I

Code	Discipline	No. of hours				Evaluation form E/C/V
		Course	Seminary	Applications	Project	
LCS 4 B D 01	<i>Basis of Economy</i>	1	1	-	-	C
LCS 4 B S 02	<i>Sensoriel Analysis of Food Products</i>	2	-	2	-	E
LCS 4 B S 03	<i>Technologies and Control in Industry of Vegetable Food Products</i>	3	-	2	-	E
LCS 4 B S 04	<i>Technologies and Control in Industry of Bakery and Flour Products</i>	3	-	2	-	E
LCS 4 B S 05	<i>Techniques of Evaluation of Food Products Counterfeiting</i>	2	-	2	-	E
LCS 4 B S 06	<i>Analysis and Identification of Risks in Food Products</i>	1	-	-	2	C
LCS 4 O D 07	<i>Nanomaterials</i>	2	2	-	-	C

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Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/V
		Course	Seminary	Applications	Project	
LCS 4 B D 10	<i>Entrepreneurship and Business Management</i>	1	1	-	-	C
LCS 4 B D11	<i>Automatization of Technological Processes in Food Industry</i>	2	2	-	-	E
LCS 4 B S 12	<i>Control of Nutritional Supplements</i>	2	-	1	-	E
LCS 4 B S 13	<i>Politics and Global Strategies of Food Security</i>	2	1	-	-	E
LCS 4 B S 14	<i>Additives and Ingredients in Food Industry</i>	2	-	2	-	E
LCS 4 B D 15	<i>Practice for Elaboration of the Graduation Project</i>	4 weeks x 6 hours x 5 days = 120 hours				C
LCS 4 O S 17	<i>Turning By-Products and Waste from Food Industry</i>	2	-	2	-	C

* E - exam; C - colloquy; V - verification

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