



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

Semester I

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 1 B F 01	<i>Linear Algebra</i>	2	2	-	-	E	4
LCS 1 B F 02	<i>Mathematical Analysis</i>	2	1	-	-	E	4
LCS 1 B F 03	<i>Physics 1</i>	2	-	2	-	E	4
LCS 1 B F 04	<i>Technical drawing</i>	1	-	2	-	C	4
LCS 1 B F 05	<i>Chemistry</i>	3	-	3	-	E	6
LCS 1 B D 06	<i>Inorganic Chemistry</i>	2	-	2	-	E	5
LCS 1 B C 07	<i>Foreign language - English / French</i>	-	2	-	-	A/R	3
LCS 1 B C 08	<i>Physical Education and Sport</i>	-	1	-	-	A/R	3*

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**First year
Semester 2**

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 1 B F 09	<i>Theory of Probabilities and Mathematics Statistics</i>	2	2	-	-	E	5
LCS 1 B F 10	<i>Applied Informatics</i>	3	-	2	-	C	6
LCS 1 B F 11	<i>Physics 2</i>	2	-	2	-	E	4
LCS 1 B D 12	<i>Organic Chemistry</i>	3	-	3	-	E	6
LCS 1 B D 13	<i>Applied Physical Chemistry</i>	3	-	3	-	E	6
LCS 1 B C 14	<i>Foreign language - English / French</i>	-	2	-	-	A/R	3
LCS 1 B C 15	<i>Physical Education and Sport</i>	-	1	-	-	A/R	3*

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Second year
Semester I

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 2 B F 01	<i>Computer Assisted Design</i>	1	-	2	-	E	3
LCS 2 B D 02	<i>Transfer Phenomena</i>	2	2	-	-	E	4
LCS 2 B D 03	<i>Mechanics</i>	2	-	-	2	C	4
LCS 2 B D 04	<i>Analytical Chemistry and Instrumental Analysis</i>	3	-	3	-	E	6
LCS 2 B D 05	<i>Basics of Chemical Engineering</i>	2	-	1	-	E	5
LCS 2 B C 06	<i>Physical Education and Sport</i>	-	1	-	-	A/R	3*
LCS 2 B C 07	<i>Foreign language - English / French</i>	-	2	-	-	A/R	3
LCS 2 O D 08	<i>Electrochemistry and Corrosion</i>	3	-	2	-	C	5

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**Second year
Semester 2**

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 2 B D 11	Unit Operations in Food Industry I	3	3	-	-	E	5
LCS 2 B D 12	Strength of Materials	2	-	2	-	E	4
LCS 2 B S 13	Microbiology 1	3	-	2	-	E	5
LCS 2 B S 14	Food Biochemistry	3	-	3	-	E	6
LCS 2 B C 15	Physical Education and Sport	-	1	-	-	A/R	3*
LCS 2 B C 16	Foreign language - English / French	-	2	-	-	A/R	3
LCS 2 B D 17	Practice	3 weeks x 6 hours x 5 days = 90 hours				C	4
LCS 2 O S 18	Food Chemistry	2	-	2	-	C	3

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Third year
Semester I

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 3 B D 01	<i>Unit Operations in Food Industry 2</i>	3	2	-	2	E	6
LCS 3 B D 02	<i>Catalysis and Catalysts</i>	2	-	2	-	E	5
LCS 3 B D 03	<i>Materials Science</i>	2	2	-	-	E	4
LCS 3 B S 04	<i>Principles and Methods of Food Preservation</i>	2	-	2	-	C	5
LCS 3 B S 05	<i>Microbiology 2</i>	2	-	2	-	E	5
LCS 3 O D 06	<i>Equipments in Food Industry</i>	2	1	-	2	E	5

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Third year
Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 3 B D 09	<i>General Biotechnology</i>	3	-	3	-	E	5
LCS 3 B S 10	<i>Basics of Nutrition</i>	3	-	2	-	C	4
LCS 3 B S 11	<i>General Food Technologies 1</i>	3	-	2	-	E	5
LCS 3 B S 12	<i>General Food Technologies 2</i>	3	-	2	-	E	5
LCS 3 B S 13	<i>General Food Technologies 3</i>	3	-	2	-	E	5
LCS 3 B D 14	<i>Practice</i>	3 weeks x 6 hours x 5 days = 90 hours				C	4
LCS 3 O C 16	<i>Entrepreneurship and Business Management</i>	1	1	-	-	C	2

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**Fourth year
Semester I**

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 4 B S 01	<i>Hygiene in Food Industry</i>	2	-	2	-	C	4
LCS 4 B S 02	<i>Food Safety and Traceability in Food Chain</i>	2	2	-	-	E	4
LCS 4 B S 03	<i>General Food Technologies 4</i>	3	-	2	-	E	5
LCS 4 B S 04	<i>General Food Technologies 5</i>	3	-	2	-	E	5
LCS 4 B S 05	<i>General Food Technologies 6</i>	3	-	2	-	E	5
LCS 4 B S 06	<i>Analysis and Identification of Risks in Food Products</i>	1	-	-	2	C	4
LCS 4 O C 07	<i>Nanomaterials</i>	1	1	-	-	C	3

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**Fourth year
Semester 2**

Code	Discipline	No. of hours				Evaluation form E/C/V	ECTS (credits)
		Course	Seminary	Applications	Project		
LCS 4 B D 10	<i>Process Automatization in Chemical Industry</i>	2	1	-	2	E	6
LCS 4 B D 11	<i>Optimization of Technological Processes</i>	2	1	-	-	E	5
LCS 4 B S 12	<i>Additives and Ingredients in Food Industry</i>	2	-	1	-	E	4
LCS 4 B S 13	<i>Authentication and detection of Counterfeits</i>	2	-	2	-	E	5
LCS 4 B S 14	<i>Practice for the Graduation Project</i>	2 weeks x 6 hours x 5 days = 60 hours				C	2
LCS 4 B S 15	<i>Elaboration of the Graduation Project</i>	2 weeks = 56 hours				C	4
LCS 4 O S 17	<i>Enzymatic and Immunological Methods</i>	2	-	2	-	C	4

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

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