

"LUCIAN BLAGA" UNIVERSITY OF SIBIU
 FACULTY OF AGRICULTURAL SCIENCES, FOOD INDUSTRY AND ENVIRONMENT
 PROTECTION
 FUNDAMENTAL DOMAIN: ENGINEERING SCIENCES
 DOMAIN OF ACADEMIC LICENSE STUDIES: FOOD PRODUCTS ENGINEERING
 SPECIALIZATION: FOOD PRODUCTS ENGINEERING
 LEVEL OF ACADEMIC QUALIFICATION: ENGINEER
 DURATION OF STUDIES: 4 YEARS
 EDUCATION FORM: FULL TIME

APPROVED BY THE RECTOR,
 Prof. Ioan BONDREA, Ph.D.

CURRICULUM

YEAR I

No.	SUBJECT MATTERS	Code	Ist Semester						IInd Semester					
			C	S	L	P	FV	No. of credits	C	S	L	P	FV	No. of credits
FUNDAMENTAL SUBJECT MATTERS														
1.	Mathematical statistics	39.08.15.F.01.1.001	2	2	-	-	E	4	-	-	-	-	-	-
2.	Organic Chemistry	39.08.15.F.01.1.002	2	-	2	-	E	4	-	-	-	-	-	-
	Food Chemistry	39.08.15.F.02.1.002	-	-	-	-	-	-	2	-	2	-	E	4
3.	Analytical Chemistry	39.08.15.F.01.1.003	2	-	2	-	C	5	-	-	-	-	-	-
	Instrumental Analysis	39.08.15.F.02.1.003	-	-	-	-	-	-	2	-	2	-	E	5
4.	Biophysics	39.08.15.F.01.1.004	2	-	1	-	E	4	-	-	-	-	-	-
5.	Physical and colloid chemistry	39.08.15.F.01.1.005	4	-	2	-	E	6	-	-	-	-	-	-
6.	Computers programming and languages	39.08.15.F.01.1.006	2	-	2	-	C	3	-	-	-	-	-	-
	Computer Aided Graphics for Food Industry	39.08.15.F.02.1.006	-	-	-	-	-	-	1	-	2	-	C	3
7.	Biochemistry	39.08.15.F.02.1.007							2	-	2	-	E	5
PREPARATORY SUBJECT MATTERS														
8.	Ecology and protection of environment in food industry	39.08.15.D.02.1.008	-	-	-	-	-	-	2	-	1	-	C	4
OPTIONAL COURSE (minimal 7 credits)														
9.	Technical drawing	39.08.01.F.02.1.009	-	-	-	-	-	-	1	-	2	-	E	3
10.	Mechanical Engineering I	39.08.01.D.02.O.010	-	-	-	-	-	-	2	1	-	-	E	4
11.	Separation analytical methods	39.08.15.F.02.1.011	-	-	-	-	-	-	4	-	2	-	E	7
SUPPLEMENTARY SUBJECT MATTERS														
12.	Foreign language I	39.08.01.C.01.O.012	1	1	-	-	C	3	-	-	-	-	-	-
	Foreign language II	39.08.01.C.02.O.012	-	-	-	-	-	-	1	1	-	-	C	3
Total compulsory hours per week			14	3	9	-	4E	29	13	2	11	-	4E	31
			26				3C		26				3C	
13.	Physical education I	39.08.01.C.01.1.013	-	2	-	-	<u>A</u>	-	-	-	-	-	<u>A</u>	-
	Physical education II	39.08.01.C.02.1.013	-	-	-	-	R	-	-	2	-	-	R	-

DEAN
 Prof. Ovidiu TIȚA, Ph.D.

HEAD OF DEPARTMENT
 Prof. Camelia SAVA, Ph.D

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YEAR II

No.	SUBJECT MATTERS	Code	IIIrd Semester						IVth Semester						
			C	S	L	P	FV	No. of credits	C	S	L	P	FV	No. of credits	
PREPARATORY SUBJECT MATTERS															
14.	Food Microbiology I Food Microbiology II	39.08.15.D.03.I.014 39.08.15.D.04.I.014	2	-	2	-	E	5	-	-	-	-	-	-	-
15.	Food Biochemistry	39.08.15.D.03.I.015	4	-	2	-	E	6	-	-	-	-	-	-	
16.	Human Nutrition and Food Safety	39.08.15.D.04.I.016	-	-	-	-	-	-	2	-	2	-	E	4	
17.	Food Toxicology and Innocuousness	39.08.15.D.03.I.017	2	-	1	-	E	3	-	-	-	-	-	-	
18.	Transfer Phenomena	39.08.15.D.03.I.018	2	1	-	-	E	3	-	-	-	-	-	-	
19.	Unit Operations and Equipments in Food Engineering I	39.08.15.D.04.I.019	-	-	-	-	-	-	3	-	2	-	E	5	
20.	Refrigeration and air conditioning in food industry I	39.08.15.D.04.I.020	-	-	-	-	-	-	2	-	2	-	E	4	
21.	Electrical Engineering	39.08.15.D.03.I.021	2	-	1	-	C	3	-	-	-	-	-	-	
	Industrial Training	39.08.15.D.04.I.022	-	-	-	-	-	-	3 weeks x 5 days x 6 hrs./day = 90 hrs.				C	4	
SPECIALIZATION SUBJECT MATTERS															
23	Hygiena	39.08.15.D.04.I.023	-	-	-	-	-	-	2	-	2	-	C	4	
SUPPLEMENTARY SUBJECT MATTERS															
24	Economy and accounting Consumer psychology	39.08.15.D.03.O.024							2	1	-	-	C	3	
25	Foreign language I Foreign language II	39.08.01.C.01.O.012 39.08.01.C.02.O.012	-	2	-	-	C	2	-	-	-	-	-	-	
			-	-	-	-	-	-	-	2	-	-	C	2	
OPTIONAL COURSE															
26	Packet I		4	-	2	-	E	7	-	-	-	-	-	-	
	General technologies	39.08.15.D.03.O.025													
	Biotechnology for the food industry	39.08.15.D.03.O.026													
27	Packet II		2	-	-	1	C	3	-	-	-	-	-	-	
	Mechanical Engineering II	39.08.15.P.03.O.027													
	Techniques and methods for conservation	39.08.15.D.03.O.028													
Total compulsory hours per week			18	3	8	1	5E	32	15	3	10	-	4E	32	
			30				3C	32	28				4C	32	
28.	Psysical education I	39.08.01.C.01.I.013	-	2	-	-	<u>A</u>	-	-	-	-	-	-	-	
	Psysical education II	39.08.01.C.02.I.013	-	-	-	-	R	-	-	-	-	-	-	-	

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YEAR III

No.	SUBJECT MATTERS	Code	Vth Semester						VIth Semester					
			C	S	L	P	FV	No. of credits	C	S	L	P	FV	No. of credits
PREPARATORY SUBJECT MATTERS														
29	Unit Operations and Equipments in Food Engineering II	39.08.15.D.05.I.019	3	-	1	-	E	4	-	-	-	-	-	-
			-	-	-	2	Pr	2						
30.	Refrigeration and air conditioning in food industry I	39.08.15.D.05.I.020 39.08.15.D.06.I.020	2	-	1	-	E	3	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	2	Pr	3
31.	Policies and strategies for food security	39.08.15.D.05.I.029	1	1	-	-	C	3	-	-	-	-	-	-
32	Legislation and Consumer Protection	39.08.15.D.05.I.030	-	-	-	-	-		1	1	-	-	C	3
33	General equipment for food industry	39.08.15.D.05.I.031	2	-	2	-	E	4	2	-	2	-	E	4
34	Industrial Training	39.02.15.D.06.O.022	-	-	-	-	-	-	3 weeks x 5 days x 6 hrs./day = 90 hrs.				C	4
SPECIALIZATION SUBJECT MATTERS														
35.	Unconventional principles and techniques in food industry	39.08.15.S.05.I.032	4	-	2	-	E	6	-	-	-	-	-	-
SPECIALIZATION SUBJECT MATTERS (OPTIONAL)														
36.	Food technology packet I Technologies in wine and wine products industry Technologies in fermentative industry	39.08.15.S.06.O.033	-	-	-	-	-	-	4	-	2	-	E	6
37.	Food technology packet II Technologies in sugar and confectionary industry Technologies in canning and beverages industry	39.08.15.S.06.O.034	-	-	-	-	-	-	4	-	2	-	E	6
38.	Food technology packet III Technologies in milk industry Technologies in meat and meat products industry	39.08.15.S.06.O.035	-	-	-	-	-	-	4	-	2	-	E	6
39.	Food technology packet IV Technologies in bakery industry Technologies in milling industry	39.08.15.S.06.O.036	-	-	-	-	-	-	4	-	2	-	E	6
Total compulsory hours per week			12	1	5	2	4E		19	1	10	2	5E	38
			22				1C	22	30				2C	
							1Pr						1Pr	

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YEAR IV

No.	SUBJECT MATTERS	Code	VIIth Semester						VIIIth Semester					
			C	S	L	P	FV	No. of credits	C	S	L	P	FV	No. of credits
PREPARATORY SUBJECT MATTERS														
40	Management	39.08.15.D.08.1.037	-	-	-	-	-	-	2	1	-	-	C	3
41	Marketing	39.08.15.D.08.1.038	-	-	-	-	-	-	2	1	-	-	C	3
42	Control and quality assurance in food industry	39.08.15.D.07.1.039	3	-	2	-	E	5	-	-	-	-	-	-
43	Integrated manufacturing systems	39.08.15.D.08.1.040	-	-	-	-	-	-	2	-	1	-	E	3
44	Modelling and automation of technological processes in food industry	39.08.15.D.07.1.041	2	-	1	-	C	3	-	-	-	-	-	-
		39.08.15.D.08.1.041	-	-	-	-	-	-	2	-	2	-	E	4
45	Equipment and plant design in food industry	39.08.15.S.08.1.042	-	-	-	-	-	-	-	-	-	2	Pr	2
SPECIALIZATION SUBJECT MATTERS														
46	Energy saving in the food industry	39.08.15.S.08.1.043	-	-	-	-	-	-	4	1	-	-	E	5
47	Packaging and design in food industry	39.08.15.S.08.1.044	-	-	-	-	-	-	2	-	1	-	C	3
48	Food additives	39.08.15.S.08.1.045	-	-	-	-	-	-	2	-	1	-	E	3
49	Elaboration Drafting Diploma	39.08.15.S.08.1.046							3 weeks x 5 days x 6 hrs./day = 90 hrs.			Pr	3	
SPECIALIZATION SUBJECT MATTERS (OPTIONAL)														
50	Food products engineering packet I Engineering in wine and wine products industry	39.08.01.S.07.O.047	2	-	2	-	E	5	-	-	-	-	-	-
	Engineering in fermentative industry													
51	Food products engineering packet II Engineering in starch and confectionery industry	39.08.01.S.07.O.048	2	-	2	-	E	5	-	-	-	-	-	-
	Engineering in canning industry													
52	Food products engineering packet III Engineering in milk industry	39.08.01.S.07.O.049	2	-	2	-	E	5	-	-	-	-	-	-
	Engineering in meat industry													
53	Food products engineering packet IV Engineering in baking industry	39.08.01.S.07.O.050	2	-	2	-	E	5	-	-	-	-	-	-
	Engineering in milling industry													
54	Technological project	39.08.01.S.07.O.051	-	-	-	2	Pr	3	-	-	-	-	-	-
Total compulsory hours per week			13	-	11	2	5E 1Pr 1C	31	16	3	5	2	4E 3C 2Pr	29
			26				26							
55. License Exam													E	10

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