

"Aurel Vlaicu" University of Arad
 Faculty of Food Engineering, Tourism and Environmental Protection
 Department: Technical and Natural Sciences
 Field: Food Engineering
 Specialization: Consumer and Environmental Protection

STUDY PLAN
Academic term 2023-2024
IST YEAR

Course code	Courses	Course type	S.S./Sem. (hours)	No. of hours per week and type of assessment											
				I ST semester 14 weeks						II ND semester 14 weeks					
				C	S	L	Pr	Ef	K	C	S	L	Pr	Ef	K
	COMPULSORY IMPOSED														
DICF1O01	Mathematical analysis	BC	74	2	2	-	-	E	5						
DICF1O02	Chemistry I	BC	86	3	-	2	-	E	6						
DICF1O03	Physics	BC	74	2	-	2	-	E	5						
DICF1O04	Applied informatics I	BC	74	2	-	2	-	OE	5						
DICD1O05	Global food security policies and strategies	DC	36	2	1	-	-	OE	3						
DICS1O06	Methods and techniques of instrumental analysis	SC	62	2	-	1	-	E	4						
DICC1O07	Foreign language I	CC	24	-	2	-	-	OE	2						
DICC1O08	Physical education and sport I	CC	12	-	1	-	-	OEP/R	1						
DICF2O09	Applied informatics II	BC	74							2	-	2	-	E	5
DICF2O10	Chemistry II	BC	86							3	-	2	-	E	6
DICF2O11	Chemistry III	DC	86							3	-	2	-	E	6
DICD2O12	Elements of mechanical engineering	SC	74							2	-	2	-	E	5
DICD2O13	Ecology and environmental protection	DC	86							2	1	2	-	E	6
DICD2O14	Foreign language II	CC	24							-	2	-	-	OE	2
DICD2O15	Physical education and sport II	CC	12							-	1	-	-	OEP/R	1
	TOTAL COMPULSORY S1/S2		884	13	6	7	-		30	12	4	10	-		30
	TOTAL COMPULSORY			13	6	7	-		K30+1	12	4	10	-		K30+1
	TOTAL COMPULSORY COURSES IST Year			26						26					
	ELECTIVE			25C+10S+17L						9E+4OE+2P/R					
	TOTAL COMPULSORY S1/S2			C	S	L	Pr	Ef	K						
DICC1F01	Foreign language FI	CC	24	-	2	-	-	OE	2						
DICC1F02	Environmental protection- option I	CC	48	2	2	-	-	OE	4						
DICC1F02	Enzymology- option II	CC	24	1	1	-	-	OE	2	C	S	L	Pr	Ef	K
DICC2F03	Communication - option I	CC	24							1	1	-	-	OE	2
DICC2F03	Methodology of impact studies - option II	CC	48							1	1	-	-	OE	2
DICC2F04	Foreign language FII	CC	24							-	2	-	-	OE	2
	TOTAL ELECTIVE S1/S2		168	3	5	-	-		K 8	2	4	-	-		K 6
	TOTAL ELECTIVE COURSES IST Year			5C+9S						6OE					

RECTOR,
 Dr. Ramona LILE

DEAN,
 Conf. Univ. Dr. Virgiliu CIUTINA

DEPARTAMENT MANAGER,
 Conf. Univ. Dr. Claudiu URSACHI

Legend: C-course; S-seminar; L-practical work (laboratory); Pr-project; SS-self-study; Ef-evaluation form; K-credits;
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Academic term 2024-2025
IIND YEAR

Course code	Courses	Course type	S.S./ Sem. (hours)	No. of hours per week and type of assessment											
				I ST semester 14 weeks						II ND semester 14 weeks					
				C	S	L	Pr	Ef	K	C	S	L	Pr	Ef	K
	COMPULSORY IMPOSED														
DICF3O01	Computer-aided graphics I	DC	69	2	-	2	-	E	5						
DICD3O02	Biochemistry I	DC	91	2	1	3	-	E	7						
DICD3O03	Principles and methods of food canning I	DC	69	2	-	2	-	E	5						
DICD3O04	Additives and ingredients in food industry	DC	69	2	2	-	-	OE	5						
DICS3O05	Atmosphere and environmental quality	SC	69	2	2	-	-	E	5						
DICC3O06	Foreign language III	CC	47	-	2	-	-	OE	3						
DICC3O07	Physical education and sport III	CC	11	-	1	-	-	OE P/R	1						
DICF4O08	Computer-aided graphics II	DC	52							2	-	-	2	E	4
DICD3O09	Food chemistry	DC	52							2	-	2	-	E	4
DICD3O10	General microbiology	DC	25							2	-	2	-	E	3
DICD4O11	Principles and methods of food canning II	DC	52							2	-	2	-	E	4
DICD4O12	Principles of human nutrition	DC	52							2	-	2	-	E	4
DICD4O13	Biochemistry II	DC	52							2	-	2	-	E	4
DICD4O14	Domain practical stage (3 weeks x 30h/week)	DC	-							-	-	-	-	OE	4
DICC4O15	Foreign language IV	CC	53							-	2	-	-	OE	3
DICC4O16	Physical education and sport IV	CC	13							-	1	-	-	OE P/R	1
	TOTAL		776	10	8	7	-		30	12	3	10	2		30
	TOTAL COMPULSORY S1/S2			10	8	7	-		K30+1	12	3	10	2		K 30+1
	TOTAL COMPULSORY			25						27					
	TOTAL COMPULSORY COURSES IIND Year			22C+9S+19L+2P						10E+6OE					K60+2
	ELECTIVE			C	S	L	Pr	Ef	K						
DICC3F01	Foreign language F II	CC	24	-	2	-	-	OE	2						
DICC3F02	Ethics and academic integrity	CC	48	2	2	-	-	OE	4	C	S	L	Pr	Ef	K
DICC4F03	Foreign language F III	CC	24							-	2	-	-	OE	2
DICC4F04	General economy	CC	48							2	2	-	-	OE	4
	TOTAL ELECTIVE S1/S2		144	2	4	-	-		K 6	2	4	-	-		K6
	TOTAL ELECTIVE COURSES IIND Year			4C+8S				4OE		K12					

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STUDY PLAN
Academic term 2025-2026
IIIRD YEAR

Course code	Courses	Course type	S.S./Sem. (hours)	No. of hours per week and type of assessment											
				I ST semester 14 weeks						II ND semester 14 weeks					
				C	S	L	Pr	Ef	K	C	S	L	Pr	Ef	K
	COMPULSORY IMPOSED														
DICD5O01	Unit operations in food industry I	BC	48	2	-	-	2	E	4						
DICD5O02	Food harmlessness	DC	62	2	-	1	-	OE	4						
DICD5O03	Equipments in food industry I	DC	74	2	-	2	-	E	5						
DICS5O04	General technologies in food industry I	DC	60	3	-	2	-	E	5						
DICD5O05	Marketing	DC	36	2	1	-	-	OE	3						
DICS5O06	Specialized microbiology	SC	74	2	-	2	-	E	5						
DICD6O07	Unit operations in food industry II	BC	48							2	-	2	-	E	4
DICD6O08	Equipments in food industry II	DC	60							2	-	-	3	E	4
DICD6O09	Packaging, labeling and design in food industry	DC	36							2	1	-	-	OE	3
DICD6O10	General technologies in food industry II	DC	60							3	-	2	-	E	5
DICS6O11	Technology of animal origin food products	SC	48							2	-	2	-	E	4
DICS6O12	Specialized practical stage (3 weeks x 30 hours/week)	SC	-							-	-	-	-	OE	4
	TOTAL		606	13	1	7	2	K 26		11	1	6	3	K 25	
	COMPULSORY OPTIONAL			C	S	L	Pr	Ef	K						
	IST OPTION														
DICS5A13	Environment auditing	SC	62	2	1	-	-	OE	4	C	S	L	Pr	Ef	K
DICS6A14	Pollutant agents and their impact on environment and consumers	SC	60							3	-	2	-	E	5
	2ND OPTION														
DICS5A13	Designing an eco-innovative food	SC	62	2	1	-	-	OE	4						
DICS6A14	Food control and expertise	SC	60							3	-	2	-	E	5
	TOTAL		122	2	1	-	-	K 4		3	-	2	-	K 5	
	TOTAL COMPULSORY S1/S2			15	3	8	-	K 30		14	1	8	3	K 30	
	TOTAL COMPULSORY		728	26						26					
	TOTAL COMPULSORY COURSES IIIRD Year			29C+4S+16L+3Pr						9E+5OE					K 60
	ELECTIVE			C	S	L	Pr	Ef	K	C	S	L	Pr	Ef	K
DICC6F01	Introduction to entrepreneurship	CC	50							1	1	-	-	OE	3
	TOTAL ELECTIVE S1/S2									1	1	-	-	K3	
	TOTAL ELECTIVE COURSES IIND Year			1C + 1S						1OE					K3

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STUDY PLAN
Academic term 2026-2027
IVTH YEAR

Course code	Courses	Course type	S.S./ Sem. (hours)	No. of hours per week and type of assessment											
				I ST semester 14 weeks						II ND semester 14 weeks					
				C	S	L	Pr	Ef	K	C	S	L	Pr	Ef	K
	COMPULSORY IMPOSED														
DICD7O01	Legislation in food industry	DC	48	2	1	-	-	E	4						
DICD7O02	Management	DC	62	2	1	-	-	OE	4						
DICS7O03	Food Analysis	SC	72	3	-	2	-	E	5						
DICS7O04	Technology of plant origin products I	SC	48	2	-	2	-	E	4						
DICD7O05	Sensorial analysis	DC	48							2	-	2	-	E	4
DICF8O06	Food safety and security in consumer protection	SC	36							2	1	-	-	E	3
DICF8O07	Food safety and security in consumer protection - project	SC	36							-	-	-	3	OE	3
DICS8O08	Biodiversity protection and conservation	SC	36							2	1	-	-	E	3
DICS8O09	Biodiversity protection and conservation - project	SC	36							-	-	-	3	OE	3
DICS8O10	Practical training for diploma project drafting (2 weeks x 30 hour/week)	SC	-							-	-	-	-	OE	2
DICS8O11	Diploma project elaboration II	SC	48							-	-	-	4	OE	4
	TOTAL		470	9	3	4	-	K 17		6	2	2	10	K 22	
	COMPULSORY OPTIONAL			C	S	L	Pr	Ef	K						
	1ST OPTION														
DICS7A12	Foods counterfeiting and authentication	SC	62	2	-	1	-	E	4						
DICS7A13	Investigating techniques for environment factors	SC	62	2	-	1	-	OE	4						
DICS7A14	Toxicology	SC	48	2	2	-	-	E	5	C	S	L	Pr	Ef	K
DICS8A15	Food product merceology	SC	62							2	-	1	-	E	3
DICS8A16	Hygiene in food industry companies	SC	62							2	-	1	-	OE	3
	2ND OPTION														
DICS7A12	Quality mangement	SC	62	2	2	-	-	E	5						
DICS7A13	Colloids in food industry	SC	62	2	-	1	-	E	4						
DICS7A14	Traditional and organic products	SC	62	2	-	1	-	OE	4						
DICS7A15	Biotechnologies for waste recycling	SC	62							2	-	1	-	E	4
DICS8A16	Cadastre and land development	SC	48							2	-	1	-	OE	4
	TOTAL		296	6	2	2	-	K 13		4	-	2	-	K 8	
	TOTAL COMPULSORY S1/S2			15	3	6	2	K 30		10	2	4	10	K 30	
	TOTAL COMPULSORY		766	26						26					
	TOTAL COMPULSORY COURSES IVTH Year			25C+5S+10L+12Pr						9E+7OE					K 60
	ELECTIVE			C	S	L	Pr	Ef	K	C	S	L	Pr	Ef	K
DICC7F01	Entrepreneurship - economic and financial aspects	CC	50	1	1	-	-	OE	3						
DICC8F02	Business management in food engineering	CC	50							1	1	-	-	OE	3
	TOTAL ELECTIVE S1/S2			1	1	-	-	K 3		1	1	-	-	K 3	
	TOTAL ELECTIVE COURSES IIND Year			2C + 2S						2OE					K 6

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