University of Life Sciences "King Michael I" from Timișoara
Faculty of Food Engineering
Domain: Food Engineering
Study programm: JOINT DEGREE - SUSTAINABILITY IN AGRICULTURE, FOOD PRODUCTION AND FOOD TECHNOLOGY IN THE DANUBE REGION
Studies: Master
Full time study
Period of courses: 2 years / 4 semesters

Aproved RECTOR,
Prof. Dr.Ing. Cosmin Alin Popescu
on the date of:

Curriculum II. Year, 2022/2023

No	COURSES	Code	I. Semester								II. Semester								Total /year		
			C	S	L	P	Hours CV	ECTS	Hours IS	EF	C	S	L	P	Hours CV	ECTS	Hours IS	EF	Hours CV	ECTS	Hours IS
Focus Area ''Food Safety and Consumer Science''																					
1	New food design and development		2	-	1	-	70	7	-	E	-	-	-	-	-	-	-	-	70	7	
2	Advanced techniques in food microbiology		2	-	2	-	84	8	-	E	-	-	-	-	-	-	-	-	84	8	
3	Modern techniques in food packaging and labelling		-	2	-	-	28	2	-	C	-	-	-	-	-	-	-	-	28	2	
4	Nutrition and sensory quality of food		1	-	1	-	42	4	-	E	-	-	-	-	-	-	-	-	42	4	
Focus Area ''Sustainable rural and regional development and policy''																					
1	Modern farm management		3	2	-	-	112	5	-	E	-	-	-	-	-	-	-	-	112	5	
2	Weather derivatives and risk management in agriculture: Theory and applications		3	2	-	-	112	5	-	E	-	-	-	-	-	-	-	-	112	5	
1	Regional marketing		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
2	Environmental risk analysis and management		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
3	Financial management in agribusiness		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
4	Project management and projects at agribusiness		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
5	Strategic management in agribusiness		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
6	Agri-environmental law and policy		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	

7	e-marketing for sustainable development		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
8	Food marketing and consumer behaviour		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
9	Investments and investment projects in agribusiness		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
Focus Area "Biodiversity and sustainable use of natural resources"																					
1	Agroecological concepts in sustainable food production		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
2	Constructed wetlands in protection of water resources		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
1	Aquatic ecosystems and biodiversity		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
2	Microbial ecology		4	-	2	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
3	Wildlife Forages		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
4	Natural enemies and principles of biological control		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
5	Molecular methods in microbial agroecology		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
6	Ichthyology		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
7	Limnology and oceanology		4	2	-	-	140	6	-	E	-	-	-	-	-	-	-	-	140	6	
8	Beneficial associations of plants and microorganisms		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
Focus Area "Sustainable Agriculture"																					
1	Agroecological concepts in sustainable food production		3	-	3	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
2	Farm crops drying and storing		3	-	4	-	140	7	-	E	-	-	-	-	-	-	-	-	140	7	
3	Fruit and vegetable postharvest technology		3	-	3	-	126	6	-	E	-	-	-	-	-	-	-	-	-	-	
1	Field crops management		3	-	3	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
2	Livestock production and the environment		2	-	1	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
3	Plant pest management		2	-	1	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
4	Plant ecophysiology		2	-	1	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
5	Rhizosphere ecology		2	-	1	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
6	Applied entomology		3	-	3	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
7	Yield formation in arable crops		2	-	1	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
Focus Area "Soil, water and climate"																					

1	GIS applications in land consolidation		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
2	Water resources management for sustainable agriculture		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
3	Water resources systems analysis techniques		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
4	Hydroecology		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
5	Soil resources		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
6	Sustainable use of soils		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
1	Agroclimatology and climate change		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
2	Water management in agriculture		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
3	Environmental soil science		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
4	Regulation of Water		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
5	Biogeochemistry of soil metals		2	-	1	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
6	Hydrology and water resources		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
7	Global ecology		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
8	Mineralogy and petrology		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
Focus Area "Sustainable energy systems"																					
1	Energetic utilization of biomass and biofuel in agriculture		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
2	Field crops and bioenergy cropping systems		2	1	-	-	70	3	-	E	-	-	-	-	-	-	-	-	70	3	
3	Waste management in agriculture		3	3	-	-	126	6	-	E	-	-	-	-	-	-	-	-	126	6	
1	Practice		-	-	-	-	-	-	-	-	-	-	7	-	98	12	227	E	98	12	227
2	Research		-	-	-	-	168	7	-	C	-	-	-	-	168	7	-	C	336	14	C
3	Experimental techniques and research		-	-	1	-	21	5	300	C	-	-	-	-	-	-	-	-	21	5	300
4	Dissertation: elaboration (individual shedule)		-	-	-	-	-	-	-	-	-	-	7	-	98	11	227	E	98	11	227
5	Ethics and academic integrity		1	-	-	-	42	2	36	C	-	-	-	-	-	-	-	-	42	2	36

TOTAL	9	0	5	1	**406**	**30**	**400**	3E+3 C	-	-	14	-	**196**	**30**	**554**	2E+1 C	**602**	**60**	**954**
	15								**14**										
Note: C - No lesson hours/week; S - No seminar hours / L - No practical seminar hours / week; P - No project hours / week.; Hours CV - conventional hours; Hours IS - hours individual study; EF - examination form: E - examen; C - colloquy; P - project; Course code: X - bachelor program / course no / course category: F -	Total no of activities / semester	No hours / week	No weeks / semester	Didactical hours / week	Didactical hours / semester	Hours IS / week	Hours IS / semester		Total no of activities / semester	No hours / week	No weeks / semester	Didactical hours / week	Didactical hours / semester	Hours IS / week	Hours IS / semester				
	560	40	14	**15**	210	25	**196**		**560**	40	14	**14**	196	26	**196**				

Avizat DECAN,
Prof. Dr. Ing. Adrian RIVIŞ

Data:30.06.2022