

Calea Mănăștur 3-5, 400372, Cluj-Napoca Tel: 0264-596.384, Fax: 0264-593.792

www.usamvcluj.ro

Nr.	din
-----	-----

Form code USAMV CN - 0702040112

COURSE DESCRIPTION

1. General data

1.1. Higher Education Institution	University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca	
1.2. Faculty	Faculty of Food Science and Technology	
1.3. Department	Food Science	
1.4. Study field	Food Engineering	
1.5. Study level ¹⁾	Cycle 1. Bachelor	
1.6. Specialization/ Study Program	Control and expertise of food products	
1.7. Teaching Form	Regular studies	

2. Course Characteristics

2.1. Name of the course EXPERTISE AND FOOD SAFETY								
2.2. Course leader	2.2. Course leader Lecturer PhD. Carmen Rodica Pop							
2.3. Coordinator of the	2.3. Coordinator of the laboratory/seminar activity Lecturer PhD. Carmen Rodica Pop							
2.4. Year of study	IV	2.5. Semester	VIII	2.6. Type of		2.7.	Content ²	DS
				Evaluation	Continuous	Course	Level of	DI
						regime	compulsory ³	

3. Total estimated time (hours/semester for the teaching activities)

3.1. Number of hours/week- frequency form	2	Of which care: 3.2. course	1	3.3. seminar/ laboratory/ project	1	
3.4. Total hours in the curricula	28	Of which: 3.5. course	14	3.6. seminar/laboratory	14	
Distribution of time					hou	
3.4.1. Study based on handbook, notes, bibliography						
3.4.2. Extra documentation in the library, on specific electronic platforms and on field					6	
3.4.3. Prepare the seminars / laboratories	3.4.3. Prepare the seminars / laboratories / projects, theme, essays, reports, portofolio					
3.4.4. Tutorial					4	
3.4.5. Examination					4	
3.4.6. Other activities						
2.7 T-4-11 62-12-14-1						

3.7. Total hours of individual study	32
3.8. Total hours per semester	60
3.9. Number of ECTS ⁴	2

4. Pre-conditions (where is the case)

4.1. of curriculum	Getting base of: Food Biochemistry, Food Chemistry, Food Microbiology, Food Toxicology
4.2. of competences	Handling of biological samples under security conditions for the user and the environment

5. Conditions (where is the case)

5.1. of course development	Space and facilities:	
	Classroom equipped with board, projector and computer	
5.2. of seminar/laboratory/project	Laboratory Equipment: Photon microscope; UV lamp; Thermostat; gas connection;	
development	related facilities (autoclave, oven, utensils specific)	



Calea Mănăștur 3-5, 400372, Cluj-Napoca Tel: 0264-596.384, Fax: 0264-593.792

www.usamvcluj.ro

Observe the academic discipline and learning outcomes are explained and discussed with the students in terms of their relevance for specific skills training,
professional and transversal.

6. Specific acquired competences

Proffesional competences	C1.2. Explain and interpret concepts, processes, models and methods in food science, using basic knowledge of microbiological safety of food C1.3. Apply basic principles and methods in microbiology to solve engineering and technological problems, including those related to food safety C2.3. To apply the principles and methods of microbiological investigation for solving technological problems in
Transversal P	CT2

7. Suject Objectives (as a result of the specific acquired competences)

7.1. Subject general objectives	Study of the main diseases through etiologic agents of bacterial and viral natu Knowledge of physiology, morphology and resistance of microorganisms to environmental conditions and the possibility of avoiding their presence and multiplication of food by knowing the morphological characters and and physiological behavior of the main groups of microorganisms with practical implications	
7.2. Specific objectives	To know the way and the conditions in which the is achieved the food contamination with bacterial and viral microbial agents To acquire the techniques for identifying the main microorganisms involved in food contamination To ensure and understand the implications of this discipline in maintaining the food quality and protecting the health of consumers,	

8. Content

Crt.	8.1.COURSE	Methods of teaching	Observations
No.	Number of hours – 14	Lecture	Lecture
	Expertise and Food Safety - object and field of	Lecture, heuristic	1 lecture
1	application	conversation,	
		explanation	
2	DISEASES PRODUCTS BY PRION	Lecture, heuristic	3 lectures
	Bovine Spongiform Encephalopathy (BSE),	conversation,	
	Creutzfeldt-Jakob disease, Scrapie or CWD	explanation	
	History, etiology and epizootological characters;		
	Sources of contamination, The resistance of		
	microorganism to environmental factors and		
	disinfectants; Clinical Features, Diagnosis and		
	prevention; Legislative measures on foodborne		
	diseases -destination carcasses and edible by-		
	products		
3.	PARASITIC DISEASES	Lecture, heuristic	3 lectures
	Giardiasis, Fascioliasis (Fasciola Infection),	conversation,	
	Hydatidosis, Tapeworm , Toxocariasis,	Explanation	
	Toxoplasmosis, Trichinellosis - History, etiology		
	and epizootological characters; Sources of		
	contamination, The resistance of microorganism		



Calea Mănăștur 3-5, 400372, Cluj-Napoca Tel: 0264-596.384, Fax: 0264-593.792

www.usamvcluj.ro

to environmental factors and disinfectants;	
Clinical Features, Diagnosis and prevention;	
Legislative measures on foodborne diseases -	
destination carcasses and edible by-products	

Crt.	8.2. PRACTICAL WORK	Teaching Method: Case Study	Practical work
No.	Number of hours – 14		
1.	Bovine Spongiform Encephalopathy (BSE),	Case study, simulation of	2 Practical works
	Creutzfeldt-Jakob disease, Scrapie or CWD -	situations, methods of group	
	Methods of diagnosis and identification, case	work, individual	
	studies.		
2.	Giardiasis, Fascioliasis (Fasciola Infection),	Case study, simulation of	2 Practical works
	Hydatidosis - Methods of diagnosis and	situations, methods of group	
	identification, case studies.	work, individual	
3.	Tapeworm, Toxocariasis, Toxoplasmosis,	Case study, simulation of	2 Practical works
	Trichinellosis - Methods of diagnosis and	situations, methods of group	
	identification, case studies.	work, individual	
4.	Oral Examination	-	1 Practical work

Compulsory bibliography

- Ancuţa M. Rotar, Sorin Apostu Boli transmisibile prin alimente la om, Ed. Risoprint, 2009,
- Apostu S., Ancuţa M. Rotar "Microbiologia produselor alimentare", vol. 2, Ed. Risoprint, 2012, Cluj-Napoca
- Apostu Sorin, Mihaela-Ancuța Rotar, Carmen R. Pop "Microbiologia produselor alimentare", vol.3, Ed. Risoprint, 2012, Cluj-Napoca

Optional bibliography

- 1. Bărzoi D., Meica S., Negrut M. "Toxiinfecțiile alimentare", Ed. Diacon Coresi, 1999, București
- Zoonoze (2004) Ed Oxford, Palmer

9. Correlations between the subject against the expectations of the epistemic community representatives, of the professional associations and employers' representatives in the domain

Knowledge of all aspects presented at the practical work and lectures.

Knowledge of biological risks induced on consumers by certain groups of microorganisms contaminating the food.

Food microbiological quality control for biochemical stability and food security.

Practical skills in microbiology laboratory

Involving students in the activity and discussions on the the matters presented

10. Evaluation

Type of activity	10.1. Evaluation criteria	10.2. Evaluation methods	10.3. Percent of the final grade		
10.4. Course	Evaluation the knowledge acquired,	Written continuous assessment (Evaluation of the answer sheets)	70%		
10.5. Seminar/Laboratory	Evaluation the knowledge acquired, evaluation the practical knowledge, degree of involvement and individual study	Oral final colloquium (Practical assessment of professional competence gained)	30%		
10.6. Minimal standard of performance:					

Elaboration of a solution for the elimination of risk factors in a manufacturing process

¹ Level of study- to be chosen one of the following - Bachelor/Post graduate/Doctoral



Calea Mănăștur 3-5, 400372, Cluj-Napoca Tel: 0264-596.384, Fax: 0264-593.792

www.usamvcluj.ro

² Course regime (content) – for bachelor level it will be chosen one of the following - DF (fundamental subject), DD (subject in the domain), DS (specific subject), DC (complementary subject).

³ Course regime (compulsory level) - to be chosen one of the following - DI (compulsory subject), DO (optional subject), DFac (facultative subject)

⁴One ECTS is equivalent with 25-30 de hours of study (didactical and individual study).

Filled in on 08.09.2021

Course coordinator Lecturer PhD. Carmen Rodica Pop Laboratory work/seminar coordinator Lecturer PhD. Carmen Rodica Pop

Subject coordinator Proffesor PhD. Ancuţa M. Rotar

Approved by the Department on 22.09.2021

Head of the Department Proffesor PhD. Ramona Suharoschi

Approved by the Faculty Council on 28.09.2021 Dean Proffesor PhD. Elena Mudura