

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

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No.	of	
TYO.	O1	

USAMV form 0702030109

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Food Science and Technology
1.3. Department	Food Engineering
1.4. Field of study	Food Engineering
1.5.Education level	Bachelor
1.6.Specialization/ Study programme	Control and expertise of food products
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline		HYGIENE IN FOOD COMPANIES						
2.2. Course coordinate	2.2. Course coordinator Associate professor PhD. Dorin TIBULCĂ							
2.3. Seminar/ laboratory/ project coordinator			Lecturer	Lecturer PhD. Melinda FOGARASI				
		2.5.		2.6. Type of		2.7.	Content ²	DS
2.4. Year of study	III	Semester	VI	2.6. Type of evaluation	continuous	Discipline status	Compulsoriness 3	DI

3. Total estimated time (teaching hours per semester) 28 hours

3.1. Hours per week – full time	2	out of which: 3.2.	1	3.3. seminar/ laboratory/	1
programme		lecture		project	
3.4.Total number of hours in the curriculum	28	out of which: 3.5. lecture	14	3.6. seminar/laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					18
3.4.2. Additional documentation in the library, specialized electronic platforms and field					10
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					9
3.4.4.Tutorials					3
3.4.5.Examinations					7
3.4.6. Other activities				0	
3.7. Total hours of individual study 47					•
3 & Total hours per semester 75					

3.7. Total hours of individual study	47
3.8. Total hours per semester	75
3.9. Number of credits ⁴	3

4. Prerequisites (is applicable)

4.1. curriculum-related	Food biochemistry, Food microbiology, Food technology
4.2. skills-related	Identify, describe and use appropriately the specific terms related to food science and food
	safety. General knowledge of food engineering, communication in Romanian, digital skills

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions about the content of the presentation. Academic discipline requires compliance with the start and end of the course. Classroom equipped with PC unit, video projector, projection screen,
	blackboard. No other activities are tolerated during the lecture, mobile phones are switched off. Attendance required at the course: minimum 50%. In the case of carrying out didactic activities online, the teaching methods will be



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	adapted.
5.2. for the seminar/ laboratory/	For practical work, it is mandatory to consult the practical guide. Each student will
project	participate in the practical work. Academic discipline is required throughout the
	work.
	The outfit must be appropriate (white robe, cap, disposable cover dispensers,
	gloves).
	Pilot station equipped with PC unit, video projector, projection screen, blackboard, equipment, machinery, utensils, raw materials, auxiliaries, materials.
	Visits to food industry units
	Presence required: 100% (absences must be recovered).
	In the case of carrying out didactic activities online, the teaching methods will be
	adapted.

6. Specific competences acquired

-	Professional competences	C1.1. Description and use of basic concepts, theories and methods in the hygiene of agri-food companies regarding the role of hygiene and sanitation during food processing C1.3. Application of basic principles and methods in the hygiene of agri-food companies to solve engineering and technological problems, including those related to food safety C5.1. Identification of specialized terminology regarding the quality, standards and hygiene of food products in order to collaborate and cooperate with the responsible institutions in the field of food quality and safety C5.2. Identify institutional responsibilities related to food safety and consumer protection C5.5. Creating multi-institutional teams designed to find and implement solutions to specific food quality and safety problems C6.3. Establishing specific problems and risks related to the extension activity	
	Transversal competences	CT1 Applying strategies of perseverance, rigor, efficiency and responsibility in work, punctuality and taking responsibility for the results of personal activity, creativity, common sense, analytical and critical thinking, problem solving, etc., based on the principles, norms and values of the code of professional ethics in the food field.	

7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	Documentation and awareness of those who will work in the field of food		
	industry, the need to apply hygiene measures, since the design of enterprises		
7.2. Specific objectives	Acquiring the theoretical and practical notions of the discipline		
	Training in the handling of laboratory utensils and equipment in order to		
	perform sanitation, air control and hygiene tests		
	Knowledge and application of hygiene norms specific to food industry units		
	Professional development by engaging in investigations regarding the		
	observance of hygiene norms on the quality of the finished product		
	Involvement of students in scientific activities and innovative research		
	Developing the ability to integrate, communicate and work in a team		
	Developing the team's coordinating spirit		
	Development of organizational capacity in carrying out activities		

8. Content

8.1. LECTURE Number of hours – 14	Teaching methods	Notes
Cap. I Hygiene of cutting points, slaughterhouses,	Lecture, heuristic	3 hours
refrigerators and meat factories	conversation, explanation	
1. Hygiene control before the start of the production		
process.		
2. Hygiene during the technological process.		
3. Sanitizing the unit at the end of the production		
program.		
4. Hygiene of the working personnel in the meat		
processing units.		



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5. Hygiene rules when handling meat and meat products.		
6. Hygiene rules for the transport of meat and meat		
products.		
7. Hygiene rules for the functioning of social groups		
(locker rooms, toilets, dining rooms)		
8. Sanitation in meat processing units		
Cap. II Hygiene rules for the location and operation	Lecture, heuristic	4 hours
of milk processing units	conversation, explanation	
1. Rules regarding the location, construction and		
equipment		
2. Sanitation in milk processing units		
3. Sanitation and disinfection of social and health groups		
4. Sanitation and disinfection of production and storage		
spaces		
5. Sanitation and disinfection of milk and dairy products		
6. Sanitation and disinfection of installations and		
equipment		
Cap. III Sanitation in milling and bakery units	Lecture, heuristic	4 hours
1. Mechanical cleaning	conversation, explanation	
2. Washing		
3. Disinfection		
4. Rinsing		
5. Drying		
6. Cleaning and sanitation control		
7. Hygiene of machinery, equipment and utensils		
8. Sanitation and disinfection of production and storage		
spaces		
9. Hygiene of social-sanitary spaces		
Cap. IV Disinfection, disinsection, rodent control	Lecture, heuristic	3 hours
(DDD) in the food industry	conversation, explanation	
1. Disinfection.		
2. Disinsection (insect control).		
3. Pest control (rodent control).		
4. Labor protection measures in D.D.D.		
5. Economic damage caused by rodents		

8.2. PRACTICAL WORK Number of hours – 14	Theoretical presentation of practical works	1 lab work (2 hours/ work)
Labor protection rules for food sectors. National and European food hygiene legislation.	instructing	1 hour
Hygiene norms imposed by the legislation on the location, construction and equipment of meat industrialization units.	Practical demonstration, observation, conversation, field visit	2 hours
Hygiene standards for milk collection, transport and processing units. Decontamination of mechanical milking installations and milk collection and transport vessels (visit to food industry units).	Practical demonstration, observation, conversation, field visit	2 hours
Hygiene standards in milling and bakery units. Utensils and materials used to carry out these operations (visit to food industry units).	Practical demonstration, observation, conversation, field visit	2 hours
Hygiene standards specific to the canned vegetable and fruit industry.	Practical demonstration, observation, conversation, field visit	2 hours
Hygiene norms specific to public and collective food units (location and construction of public food units, endowment with equipment). Norms for the operation of public and collective catering units. Cleaning and washing in public and collective catering establishments.	Practical demonstration, observation, conversation, field visit	2 hours



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Staff hygiene (visit).		
Means for washing and disinfection.	Practical demonstration,	2 hours
Control of washing and disinfection solutions in food	observation, conversation,	
industry units (laboratory).	field visit	
Washing solution recipes.		
Recipes for disinfection solutions.		
Checking practical knowledge - survey		1 hour

Compulsory bibliography:

- 1. Melinda Fogarasi, Dorin Țibulcă, 2020, Lucrări practice de igiena societăților agroalimentare, Editura Mega, Cluj-Napoca.
- 2. Ștețca Gheorghe, 2013, Igiena unităților de industrie alimentară Ed. a 5-a, rev. și adăugită, Editura Risoprint, Cluj-Napoca
- 3. Ștețca Gheorghe, Adriana Paula David, 2009, Igienizarea unităților de industrie alimentară, Editura Risoprint, Cluj-Napoca
- 4. Ștețca Gheorghe, Cristina Hegeduș, 2008, Ghid practic de igienă, Editura Risoprint, Cluj-Napoca.

Optional bibliography:

- 1. Apostu S., Mihaela Anca Rotar, 2002, Lucrări practice de microbiologie alimentară, Editura Risoprint, Cluj-Napoca.
- 2. Stănescu V., Savu C., 1993, Controlul de laborator al produselor de origine animală A.M..B.U.S.A.F.M.V. București
- 3. Ștețca Gheorghe, Macovescu S., 2006, Igiena depozitării produselor alimentare de origine animală și sisteme frigorifice, Editura Risoprint, Cluj-Napoca.
- 4. Ștețca Gheorghe, Mocuța N., Anamaria Pop, 2012, Strategii de management privind calitatea alimentelor, Editura Risoprint, Cluj-Napoca.
- 5. Ștețca Gheorghe, Tuță Ghe., 2007, Managementul alimentar teorie și practică, Editura Risoprint, Cluj-Napoca.
- 6. Ștețca Gheorghe, Laslo C., 2007, Praticum de igienă alimentară, Editura Risoprint, Cluj-Napoca.
- 7. Decun N., 1995, Sanitație veterinară, Editura Helicon, Timișoara
- 8. Decun N., Stoita M.,1999, Legiaslație pentru managementul calității produselor de origine animală, Editura Mirton, Timișoara

9. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The training requirements for a competent specialist are met by the high degree of applicability and topicality of the content of the discipline (familiarization with the needs of the food industry units on hygiene is done directly through scheduled visits to the units).

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Assimilation of knowledge and its logical, correct and coherent application	Continuous assessment	70%
10.5. Seminar/Laboratory	Knowledge of how to sanitize and assess the state of hygiene within the food industry units	Colloquium (written)	30%

10.6. Minimum performance standards

Mastery of scientific information transmitted through lectures and seminars at an acceptable level (minimum 50%). Drafting materials for institutions responsible for the hygiene of food units

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

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)

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



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Course coordinator

Associate Professor PhD. Dorin Tibulcă

Laboratory work/seminar coordinator

Lecturer PhD. Melinda Fogarasi

Filled in on 09.09.2021

Approved by the

Approved by the Faculty

Department on 22.09.2021

Council on 28.09.2021

M-

Subject coordinator

Associate Professor PhD. Dorin Tibulcă

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Head of the Department Prof. PhD. Sevastita Muste

Dean

Prof. PhD. Elena Mudura

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