Annex 6

DISCIPLINE DESCRIPTION

1. Information on the study programme

1.1 Academic institution	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ENVIRONMENTAL PROTECTION
1.3 Department	FOOD ENGINEERING
1.4 Field of study	FOOD ENGINEERING
1.5 Cycle of study	MASTER
1.6 Study programme/Qualification	AGRI-FOOD SAFETY AND SECURITY

2. Information on the discipline

2.1 Name of discipline	Foo	od Saf	fety			
2.2 Course holder	Tin	nar A	drian			
2.3 Seminar/Laboratory/Project h	older Chi	irilă R	lamona			
2.4 Year of study I 2.5 S	emester	r I 2.6 Type of evaluation Ex 2.7 Regime of discipline (С
(C) Compulsory; (O) Optiona	ıl; (E) Electi	ve				

3. Total estimate time (hours per semester of didactic activities)

5. Total estimate time (nouis per sent	color of alaaw					
3.1 Number of hours per week	3	out of which:	2	out of which 3.3	1	
		3.2 course		seminar/laboratory/project		
3.4 Total hours in the curriculum	42	out of which:	28	out of which 3.6	14	
		3.5 course		seminar/laboratory/project		
Time allotment					hours	
Study assisted by manual, course support, bibliography and notes					30	
Additional documentation in the library/ on specialised electronic platforms and in the field					30	
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					30	
Tutorship					6	
Examinations					2	
Other activities					10	
3.7 Total hours of individual study 108						
3 9 Total hours per semester	150)				

4. Prerequisites (where appropriate)

3.10 Number of credits

4.1 curriculum	-
4.2 competences	-

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5. Conditions (where appropriate)

5.1. related to course	Video projector, Screen	
5.2. related to	Food safety specific equipment for practical applications	
seminar/laboratory/ project		

6. Specific competences acquired

Professional competences	C2Monitoring of general engineering processes, operation of food industry facilities and equipment from the point of view of food safety C3Know how to prepare and implement food safety measures
Transversal competences	CT1 skills. Applying strategies of perseverance, rigor, efficiency and responsibility at work, punctuality and taking responsibility for the results of personal activity, creativity, analytical and critical thinking, problem solving, etc., based on the principles, norms and values of the code of professional ethics in food . CT2. Applying interrelationship techniques within a team; amplifying and refining the empathic capacities of interpersonal communication and assuming specific attributions in carrying out the group activity in order to treat / resolve individual / group conflicts, as well as the optimal time management. CT3. Effective use of various ways and techniques of learning - training for the acquisition of information from bibliographic and electronic databases, both in Romanian and in a language of international circulation, as well as assessing the need and usefulness of extrinsic and intrinsic motivations of continuing education .

7. Objectives of discipline (coming from the specific competences acquired)

7.1 General objective	The discipline aims to provide students with training so that they can design, implement and monitor a food safety system for the safe production and storage of food.
7.2 Specific objectives	 Emphasis will be placed on critical evaluation: legal norms, the form and how to prepare the documentation, quality characteristics, the potential substances that can contaminate agri-food products and how this is done. There will also be ways to rectify the incidents. The technical aspect will be corroborated with the legislative one in the field

8. Content*/

8.1 Course	Methods of teaching	No. of hours/
		Remarks
1. General aspect regarding food safety and security	Interactive lecture with	1
	video projection	
2. Food security - objectives and priorities	Interactive lecture with	1
	video projection	
3. Food safety - a symbol of food quality and hygiene	Interactive lecture with	1
	video projection	
4. Food traceability - a basic component of food safety	Interactive lecture with	1
and security	video projection	
5. Food safety policy	Interactive lecture with	1

	video projection	
6. Certification of the food safety management system	Interactive lecture with	1
	video projection	
7. HACCP - food safety management tool	Interactive lecture with	1
	video projection	
8. The need to comply with the preliminary	Interactive lecture with	1
requirements for the implementation of the food safety	video projection	
management system according to the HACCP		
principles		
9. Legislative regulations in Romania regarding food	Interactive lecture with	1
safety and security	video projection	
10. Legislative regulations in the European Union	Interactive lecture with	1
regarding food safety and security	video projection	
11. Food safety from nutritional point of view	Interactive lecture with	1
	video projection	
12. Hygienic-sanitary quality of food products	Interactive lecture with	1
	video projection	
13. National Sanitary Veterinary and Food Safety	Interactive lecture with	1
Authority - attributions, rights, competences	video projection	
14. Particularities regarding the certification of the	Interactive lecture with	1
food safety management system	video projection	
Bibliography		

Banu C., Suveranitate, securitate și siguranță alimentareă, Edit. Assab, București, 2007
 Timar Adrian, Siguranta alimentara, suport de curs

	-	-	
ndardele : HACCP	. ISO 22 000, SR 13	3462 – 1 : 2001 : SR 13462	2 – 2 : 2002. SR 13462 – 3 : 2002

Standardele : HACCP, ISO 22 000, SR 13462 – 1 : 2001 ; SR 13462 – 2 : 2002, SR 13462 – 3 : 2002					
8.3 Laboratory	Methods of teaching	No. of hours/			
		Remarks			
1. Product information sheet	Demonstration, Practical	1			
	Application				
2. Elaboration of the technological flow diagram I	Demonstration, Practical	1			
	Application				
3. Elaboration of the technological flow chart II	Demonstration, Practical	1			
	Application				
4. Elaboration of the technological flow diagram	Demonstration, Practical	1			
III	Application				
5. Identification of potential hazards I	Demonstration, Practical	1			
	Application				
6. Identification of potential hazards II	Demonstration, Practical	1			
	Application				
7. Identification of potential hazards III	Demonstration, Practical	1			
-	Application				
8. Assessment of potential risks	Demonstration, Practical	1			
	Application				
9. Establishing CCPs	Demonstration, Practical	1			
	Application				
10. Setting up PCs	Demonstration, Practical	1			

	Application	
11. Standard values (target) and critical limits	Demonstration, Practical	1
(tolerances)	Application	
12. Monitoring	Demonstration, Practical	1
	Application	
13. Establish corrective actions	Demonstration, Practical	1
	Application	
14. Preparation of documents and records and	Demonstration, Practical	1
Verification	Application	

Bibliography

- 1. Banu C., Suveranitate, securitate și siguranță alimentareă, Edit. Assab, București, 2007
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- 4. Banu C.; Alexe, Petre; Camelia Vizireanu, Procesarea industrilă a cărnii, Ed. TEHNICĂ, București, 2002,
- 5. Banu C., Manualul inginerului de industrie alimentară vol. I și II Editura Tehnică, București 1998.
- 6. Banu Ct., Vizireanu C. "Procesarea industrială a laptelui", Ed. Tehnică, București, 1998,
- 7. Modoran D., Tehnologii fermentative, vol. I, Editura ICPIAF Cluj-Napoca 2002,
- 8. Modoran, Constanța "Produse de panificație și patiserie", Editura Agenția de Dezvoltare Regională Nord Vest, 2003
- 9. Timar Adrian, Tehnologia Prelucrării Cărnii, Editura Universității din Oradea, 2010
- Timar Adrian, Tehnologii generale în industria alimentară, Editura Universității din Oradea, 2010

* The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.

9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme

Discipline provides knowledge to food industry specialists for positions in charge of Food Safety Programs inplementation

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	 for grade 5 - 50% knowledge of the subject for grade 6 - 60% knowledge of the subject for grade 7 - 70% knowledge of the subject for grade 8 - 80% knowledge of the subject for grade 9 - 90% knowledge of the subject for grade 10 - 	Summative assessment - exam - written or oral test	70%

10.5 Sominary	knowledge of the subject in proportion of 100% (the student proves the consultation of the presented bibliographic material).				
10.5. Seminary	for and for the				
	for grade 5 - the student answers 50% of the questions correctly for grade 6 - the student answers 60% of the questions correctly for grade 7 - the student answers 70% of the questions correctly for grade 8 - the student answers 80% of the questions correctly for grade 9 - the student answers 90% of the questions correctly for grade 10 - the student answers 100% of the questions correctly for grade 10 -	Practical evaluation	30%		
10.8 Minimum standard of	performance				
Execution of specific operations in the food safety sphere based on the job description, respecting the norms and values of professional ethics. Realization of an individual project. Creating a portfolio with the identification and description of professional roles at the level of a subordinate team. Carrying out a team project. Elaboration of a technical study through the efficient use of relevant and current sources of documentation and resources (including internet, databases, online courses, etc.) in the topic of food safety.					
Date of completion 01.10. 2020	Signature of the course h Ş.L. dr. Ing.Timar Ac <u>atimar@uoradea.r</u>	older Signature Irian Ş.L. dr. I	e of laboratory holder ng.Bura Giani		

Date of approval in the department

01.10.2020

Signature of the Head of Department Lecturer dr. Chirilă Ramona

> Dean signature Prof. dr. eng. Chereji Ioan