

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

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No.	of	
110.	O1	

USAMV Form 0702020103

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine 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	Food Control and Expertise
1.7. Form of education	Full time

2. Information on the discipline

2. Illioi mation on the		,						
2.1. Name of the		Animal raw mat	terials	1				
discipline								
2.2. Course coordinat	or			Lecturer	dr. Melinda Fo	garasi		
2.3. Seminar/ laboratory/ project coordinator			Asist. Dr.	Delia Michiu				
2.4. Year of study	II	2.5. Semester	III	2.6.		2.7.	Content ²	DS
				Type of	continuous	Discipline	Compulsoriness ³	DI
				evaluation		status	Compaisonness	"

3. Total estimated time (teaching hours per semester)

3. Total estimated time (teaching nours pe	1 SCIIIC	stc1)			
3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	2	3.3. seminar / laboratory / project	1
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	28	3.6. seminar / laboratory	14
Distribution of time allotted					hours
3.4.1. Study based on book, textbook, bi	3.4.1. Study based on book, textbook, bibliography and notes 30				
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					10
3.4.4. Tutorial					2
3.4.5. Examinations					6
3.4.6. Other activities					0
3.7. Total hours of individual study 58					-
3.8. Total hours per semester 100					
3.9. Number of credits ⁴	3.9. Number of credits ⁴ 4				

4. Prerequisites (if applicable)

TO I TOTO CONTINUES (II depositor	wo10)
4.1. curriculum-related	Food Biochemistry
	Food Chemistry
4.2. skills-related	-

5. Conditions (if applicable)

5.1. for the lecture	Room equipped with projector
5.2. for the seminar/ laboratory/	- Analysis Laboratory, Ecomilc, Soxhlet, Parnas Wagner devices; laboratory
project	glassware, biological products, meat, milk, eggs, anatomical parts, reagents
	- Everyone must respect all security regulations; (eg. wearing the protective coat)

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UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ CLUJ-NAPOCA

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6. Specific acquired competences

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S	C1.1. Recognition, description and correct use of terms specific to raw materials of animal origin
i	C1.3. Application of basic principles and methods in food science to solve engineering and technological
0	problems, including those related to food safety
n	C1.4. Evaluation of the qualitative and quantitative characteristics of the raw materials of animal origin in order
a	to optimize the technological flow and ensure the food safety of the consumer; Knowledge and identification of
1 c	the component parts of the raw materials of animal origin subject to capitalization in order to obtain food products; Knowledge of the physico-chemical parameters pursued in the quality control of raw materials of
0	animal origin; Application of basic methods in the analysis of the quality of raw materials of animal origin
m	(training in investigations on the impact of quality parameters of raw materials of animal origin on the quality of
p	the finished product; establishing the influence of the chemical composition of the raw material on the finished
e	product) during the technological flow)
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a	CT2. Applying interrelationship techniques within a team; Developing the ability to integrate, communicate and
1	work in a team; Developing the team coordination spirit; Development of organizational capacity in carrying out
c	activities
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7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	Acquisition by students of knowledge on the biological bases of animal production, influencing factors and their quantitative and qualitative control
7.2. Specific objectives Acquiring the theoretical and practical notions of the discipline	
	Training in the handling of laboratory utensils and equipment



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Knowledge of the characteristics of animal productions, their influencing factors
and the criteria for assessing the quality of animal raw materials
Professional development by engaging in investigations on the impact of quality
parameters 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

o. Content		_	
8.1. LECTURE Number of hours – 28	Teaching methods	Notes	
1. Introductory notions. The purpose, importance and content of the course	Lecture, heuristic conversation, explanation, video presentations	0.5 lecture	
2. Systematic taxonomy	Lecture, heuristic conversation, explanation, video presentations	2,5 lecture	
3. Animals meat supplyiers	Lecture, heuristic conversation, explanation, video presentations	5 lecture	
4. Poultry and poultry production (meat, eggs)	Lecture, heuristic conversation, explanation, video presentations	3 lecture	
5. Milk supplying animals and milk production	duction Lecture, heuristic conversation, explanation, video presentations		

8.2. PRACTICAL WORK	Theoretical presentation of	1 lab work (1 hour / work)
Number of hours – 14	practical works	I lub work (I hour / work)
1. Security assurance. PSI. Animal approach and	Presentations	1 lab work
contention		
2. Animal characters and characteristics. The bone base	Presentations, essays,	2 lab works
of the main body regions	bibliographical study	
3. Characterization and recognition of the main breeds of	Presentations, essays,	2 lab works
cattle (for meat, milk and mixed)	bibliographical study	
4. Characterization and recognition of the main breeds of	Presentations, essays,	2 lab works
sheep (for meat, milk, wool and mixed)	bibliographical study	
5. Characterization and recognition of the main breeds of	Presentations, essays,	2 lab works
pigs (for meat, fat and mixed)	bibliographical study	
6. Characterization and recognition of the main breeds of	Presentations, essays,	2 lab works
birds (meat and eggs)	bibliographical study	
7. Meat and fat production	Presentations, essays,	1 lab work
	bibliographical study	
8. Egg and milk production	Presentations, essays,	1 lab work
	bibliographical study	
9. Appreciation of animal quality	Presentations, essays,	1 lab work
	bibliographical study	

Compulsory bibliography:

- 1. Marcu N. ş.a., 2008, Materii prime animale, Editura RISOPRINT, Cluj-Napoca
- 2. Sălăgean, C.D., Fogarasi Melinda, 2018, *Materii prime animale* vol. 1 (manual didactic), Editura MEGA, Cluj-Napoca
- 3. Şteţca Gheorghe, 2010, Tehnologii de obtinere a materiilor prime de origine animala, Editura Risoprint, Cluj-Napoca
- 4. Şteţca Gheorghe, 2013, Materii prime de origine animala, Tehnologii de obtinere, Editia a 2-a, Editura Risoprint, Cluj-Napoca

Optional bibliography:

- 1. Banu C. si col. 1999, Manualul inginerului de industrie alimentară, Vol. II Editura Tehnica, Bucuresti
- 2. Banu, C. ş.a., 2003, Procesarea industrială a cărnii, Ed. Tehnică, București



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- 3. Laslo C., Gh. Șteţca, 2008, Controlul calitativ și igiena produselor alimentare de origine animală, Editura Risoprint, Cluj-Napoca
- 4. Sălăgean, C. D., 2011, *Tehnologia și controlul calității pe fluxul tehnologic de fabricație a produselor din carne*, Editura RISOPRINT, Cluj-Napoca
- 5. Sarbulescu V., Stanescu V., Vacaru Opris I., Cornelia Vintila, 1983, Tehnologia si valorificarea produselor animale, E.D.P. Bucuresti
- 6. Şteţca Gheorghe, R. Morar, I. Pasca, 2010, Zootehnia generala, nutritia animala si sisteme de productii animaliere, Editura Risoprint, Cluj-Napoca;
- 7. Țibulcă, D., Sălăgean, D., 2000, *Tehnologia cărnii și a produselor din carne*, Volumul I, II, Editura RISOPRINT, Cluj Napoc a
- 8. Ţibulcă, D., Sălăgean, D., 2010, Procesarea cărnii, vol. I, Editura RISOPRINT, Cluj-Napoca

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

It meets the requirements for a qualified training by the high degree of applicability (eg. laboratory work) and topical content of the discipline.

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	The biological basis knowledge of animal production, factors which influence and control their quantitative and qualitative production	Continuous assessment (written exam, multiple choice test)	70%
10.5. Seminar/Laboratory	Knowledge of the examination method and skeletal structure as the bone base of the main body regions, the way of assessing the exterior and productive value of animals and the constitutional and morpho-productive types, assessing the quality of animals, recognizing the main breeds of cattle (for meat, milk and mixed), sheep (for meat, milk, wool and mixed), pigs (for meat, fat and mixed) and poultry (meat and eggs)	Colloquium	30%

10.6. Minimum performance standards

Recognition of the main breeds of cattle, sheep, pigs and birds

Knowing how to appreciate the quality and productive value of animals

The final grade is the weighted average of the exam and the colloquium on practical work and must be equal to or greater than 5 (five).

Education levels- choose of the three options: Bachelor^{/*} Master/Ph.D.

Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

⁴ One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

^{5/*} Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis



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Course coordinator Lecturer dr. Melinda Fogarasi Laboratory work/seminar coordinator Asist. Dr. Delia Michiu

Filled in on 06.09.2021



Subject coordinator Lecturer dr. Melinda Fogarasi



Head of the Department Prof. dr. Sevastiţa Muste

Approved by the Department on 22.09.2021

Dean Prof. dr. Elena Mudura

Approved by the Faculty Council on 28.09.2021