

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

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No.	of	

USAMV-CN-0702030324

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-N
1.2. Faculty	Faculty of 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 Expertize
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Traditional food products technology								
2.2. Course coord	2.2. Course coordinator Lecturer PhD. Teodora Emilia Coldea								
2.3. Seminar/ labor	2.3. Seminar/ laboratory/ project coordinator Lecturer PhD. Teodora Emilia Coldea								
2.4. Year of	III	2.5.	2.5. VI 2.6. Type of 2.7. Content ² DD						
study		Semester		evalua	ition	Summative	Discipline status	Compulsoriness ³	DFac

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	28
Distribution of the time allotted					
3.4.1. Study based on book, textbook, bibliography and notes					5
3.4.2. Additional documentation in the library, specialized electronic platforms and field				1	
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays				1	
3.4.4.Tutorials				1	
3.4.5.Examinations					5
3.4.6. Other activities					

3.7. Total hours of individual study	8
3.8. Total hours per semester	50
3.9. Number of credits ⁴	2

4. Prerequisites (is applicable)

4.1. curriculum-related	Food biochemistry. Food microbiology.
4.2. skills-related	Handling of samples safely for the user and the environment.

5. Conditions (if applicable)

5.1. for the lecture	- room equipped with video projector



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5.2. for the seminar/	- the student will not start the activity without the protective equipment;					
laboratory/ project	control laboratory on the technological flow equipped with distillation installation,					
	spectrophotometer, automatic analyser of beverages during the fermentation,					
	ebuliometer.					

6. Specific competences acquired

	• C2.1. Description and use of basic concepts, theories and methods in the field of processes and
s	operation of agro-food chain installations
nal	• C2.2. Explanation and interpretation of basic engineering concepts, methods and models in
ssic	equipment exploitation issues in the agro-food industry
Professional competences	• C2.4. Critical analysis, evaluation of the characteristics, performances and limits of some
Pr	technological processes and equipment's in the field of the agro-food industry
Transversal competences	CT2 Application of interrelation techniques within a team; amplifying and refining the empathic capacities of interpersonal communication and of assuming specific attributions in carrying out the group activity in order to treat / resolve individual / group conflicts, as well as the optimal time management.

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

7.1. Overall course	Familiarization and application of knowledge related to traditional technologies for
objective	obtaining food
7.2. Specific	Knowledge of traditional technological flows for obtaining food Knowledge of
objectives	control parameters on the technological flow

8. Content

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8.1.LECTURE Number of hours – 28	Teaching methods	Notes
Traditional technologies for obtaining alcoholic beverages	Lecture, heuristic conversation,	3
based on fruits and cereals.	explanation	lectures
2. Traditional technologies for obtaining non-alcoholic	Lecture, heuristic conversation,	2
fermented beverages	explanation	lectures
3. Traditional technologies for obtaining food vinegar	Lecture, heuristic conversation,	2
	explanation	lectures

8.2. PRACTICAL WORK	Teaching methods	Notes
Number of hours – 28		
Control over the technological flow in obtaining fruit brandies	Heuristic conversation, case study	3 lectures
Control over the technological flow of wine production	Heuristic conversation, case study	3 lectures
Control over the technological flow in obtaining vinegar	Heuristic conversation, case study	3 lectures
Control over the technological flow in obtaining the borş	Heuristic conversation, case study	2 lectures
Control over the technological flow in obtaining craft beer	Heuristic conversation, case study	3 lectures

Compulsory bibliography:

- 1. Mudura, E. 2004. Tehnologii fermentative. Tehnologia berii: Indrumator de lucrări practice . Editura Risoprint, Cluj-Napoca.
- 2. 2.Elena Mudura, 2012. Controlul calității produselor alimentare în industria băuturilor alcoolice. Editura AcademicPres.
- 3. 3.Elena Mudura, 2013.Tehnologia malţului şi berii. Editura Mega, Cluj Napoca.
- 4. Banu, C.(coordonator). 2000. Tratat de știința și tehnologia malţului și berii,vol I și II. Editura Tehnică.București.



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- 5. 5.Cotea V. 1985. Tratat de oenologie. Vol I. Vinificația și biochimia vinului. București. EdituraCeres
- 6. Cotea V., Sauciuc I., 1988. Tratat de Oenologie. Vol II Limpezire, stabilizarea şi îmbutelierea vinului. Bucureşti, Editura Ceres
- 7. Cotea V., Pomohaci, N., Gheorghiță M., 1982. Oenologie. București, Editura didactică și pedagogică
- 8. Pomohaci N., Stoian V., Gheorghiță M., Sîrghi C., Cotea V.V., Nămoloșanu I., 2000. Oenologie. vol. I.
- 9. Prelucrarea strugurilor și producerea vinurilor, Editura Ceres, București.
- 10. 9.Pomohaci N., Cotea V.V., Stoian V., Namoloşanu I., Popa A., Sîrghi C., Antoce Arina, 2001. Oenologie. vol. II.
- 11. Îngrijirea, stabilizarea si îmbutelierea vinurilor. Construcții si echipamente vinicole.Editura Ceres, București.
- 12. 10.Modoran, D., 2005. Procesarea industrială a alcoolui rafinat, Editura Academicpress, Cluj-Napoca

Optional bibliography:

- 1. 1.Kunze, W.-Technology brewing and malting, VLB, Berlin, 1999
- 2. 2.Modoran, D.(2002), Tehnologii fermentative, Editura ICPIAF, Cluj-Napoca
- 3. Aurel I Popa, Ștefan C. Teodorescu- Microbiologia vinului. București:, Editura Ceres, 1990
- 4. 4.Mudura, E. 2014. Calitatea și inocuitatea berii. Editura Mega, Cluj Napoca
- 5. Elena Mudura, 2014. Bioprocese fermentative, în Modelarea, simularea şi conducerea avansată a bioproceselor fermentative.
 Coordonator Anca Sipoş. Editura Universității "Lucian Blaga" din Sibiu.

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 training requirements for a competent specialist due to the high degree of applicability and topicality of the discipline's content (identification and solution of quality problems that may occur on the technological flow of obtaining fermented and distilled alcoholic beverages).

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment	10.3. Percentage of the final
Type of activity	10.1. Assessment effecta	methods	grade
10.4. Lecture	Knowledge of traditional technologies for		-
	obtaining alcoholic and non-alcoholic beverages.		
	Control of quality parameters on the	Exam (oral)	50%
	technological flow of obtaining alcoholic and	Exam (oral)	3070
	non-alcoholic beverages.		
10.5.	Identifying the quality parameters and knowing		
Project/Laboratory	the method principles in controlling the quality		
	parameters of traditional alcoholic and non-		
	alcoholic beverages.	Colloquium	50%
	Use of laboratory equipment to determine the	(C)	3070
	control parameters of traditional alcoholic and		
	non-alcoholic fermented beverages.		

10.6. Minimum performance standards

Course (E): Knowledge of traditional technologies for obtaining traditionally fermented and distilled beverages. Minimum standard grade 5.

Colloquium (C): Knowledge of the quality parameters pursued on the technological flow of obtaining traditional alcoholic and non-alcoholic beverages. Minimum standard note 5.

Final grade = 50% E + 50% C. Minimum standard grade 5.

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).

³/ Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

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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Filled in on 08.09.2021

Approved by the

Approved by the Faculty

Department on

22.09.2021

Council on 28.09.2021

Course coordinator Prof. PhD. Elena Mudura Laboratory work/seminar coordinator Lecturer PhD. Teodora Emilia Coldea

Subject coordinator Prof. PhD. Elena Mudura

Head of the Department Prof. PhD. Sevastita Muste

Dean Prof. PhD. Elena Mudura

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