



UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ CLUJ-NAPOCA

Calea Mănăstur 3-5, 400372, Cluj-Napoca

Tel: 0264-596.384, Fax: 0264-593.792

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No. _____ of _____

USAMV form 0708020106

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	Master
1.6. Specialization/ Study programme	Gastronomy, Nutrition and Dietetics
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Practice for the elaboration of a dissertation thesis							
2.2. Course coordinator	Prof.dr. Suharoschi Ramona Prof. Dr. Adriana Paucean							
2.3. Seminar/ laboratory/ project coordinator	Prof.dr. Suharoschi Ramona Prof. Dr. Adriana Paucean							
2.4. Year of study	II	2.5. Semester	IV	2.6. Type of evaluation	continuous	2.7. Discipline status	Content ²	FD
							Compulsoriness ³	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme		out of which: 3.2. lecture		3.3. seminar/ laboratory/ project	
3.4. Total number of hours in the curriculum	76	Out of which: 3.5. lecture	0	3.6. seminar/laboratory	76
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					70
3.4.2. Additional documentation in the library, specialized electronic platforms and field					150
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					30
3.4.4. Tutorials					20
3.4.5. Examinations					4
3.4.6. Other activities					
3.7. Total hours of individual study	274				
3.8. Total hours per semester	350				
3.9. Number of credits ⁴	14				

4. Prerequisites (is applicable)

4.1. curriculum-related	1. The topic of all subjects in the curriculum
4.2. skills-related	Knowledge of food safety issues

5. Conditions (if applicable)



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5.1. for the lecture	-
5.2. for the seminar/ laboratory/ project	<ul style="list-style-type: none"> • Seminar rooms, analytical laboratories Library, scientific articles, reviews, dissertation thesis, case studies, ppt presentations, e-books, database

6. Specific competences acquired

Professional competences	C 6.1. Knowledge of the principles of scientific research and statistics; knowledge of current technologies and how they can be used in different areas of current practice or research C6.2 Use of knowledge on methods: experimental, expertise, sociological, statistical to assess the level of quality and safety of gastronomic products C6.5 Elaboration of a project for the development of a product / process in a public alimentation unit
Transversal competences	CT1 Realization of complex, interdisciplinary, individual projects

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

7.1. Overall course objective	Understanding the need to adapt a certain experimental strategy to the type of sample to be analyzed, to select the correct sampling and processing method from the diversity of available methods
7.2. Specific objectives	Discuss several possible approaches to a task; Supporting personal ideas and points of view through argumentation; Systematic recording of the obtained results, their oral and written presentation, the use of diagrams and schemes; Developing the ability to work individually / in groups; Stimulating initiative and willingness to tackle a variety of tasks Ensuring the logistical and methodological support for the elaboration of the dissertation work in accordance with the specific requirements

8. Content

8.1. Number of hours –40 Topic 1	Teaching methods	Notes
1.1. Rules for the elaboration of the dissertation thesis.	Lecture, Conversation; Explication; Case Study	2 seminars
1.2. Legal framework		
1.3. Plagiarism		
Topic 2		
2.1. Documentation: principles		2 seminars
2.2. Database		
2.3. Types of scientific articles, critical analysis of information from the literature, systematization and organization of data from the literature for the proposed studies		2 seminars



2.4. Practical documentation using USAMV library resources

Topic 3

3.1. Case studies resulting from the specialized documentation depending on the approached topic

3.2. Presentation of the theme and objectives of the paper

Topic 4

4.1. Software applications usable in the elaboration of the dissertation: presentation

4.2. Software applications usable in the elaboration of the dissertation paper: concrete, practical use, depending on the approached topic

Topic 5

5.1. Presentation technique: information structuring, presentation strategies.

5.2. Ways of structuring the presentation of results: graphs, histograms, diagrams, logic diagrams, flow diagrams

Topic 6

6.1. Statistical analysis of experimental data

6.2. Mathematical modeling: principles, approaches

6.3. Implementing a model: case study

Topic 7. Case studies on the implementation and conduct of experiments

7.1. Presentation of materials and methods / techniques approached

7.2. Presentation of the technological / analytical scheme used, of the proposed theoretical / practical model

7.3. Mathematical modeling of the experiment or data used

7.4. Elaboration of theoretical conclusions resulting from preliminary studies

Theme 8. Presentation of the personal contribution to solving the research topic

8.1. Detailed description of the proposed technology / solution

8.2. Substantiation of the proposed solutions through sizing / verification calculations / statistical calculations / own analyzes

8.3. Elaboration of explanatory sketches / comparative analysis of variants / optimization calculations

8.4. Presentation of conclusions on the experiment

2 seminars

2 seminars

8.2. PRACTICAL WORK

Number of hours –36

Topic 1

Practice for dissertation

1.1. Conducting experiments to achieve the proposed research objectives

1.2. Elaboration of the dissertation

Lecture, Conversation;
Explication; Case Study



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Compulsory bibliography:

*** - *Legea Educației Naționale nr. 1/2011*

1. *Ghid de elaborare Lucrare Disertație, USAMV Cluj Napoca*
2. *** - *Ordinul ministrului educației, cercetării, tineretului și sportului privind metodologia-cadru de organizare a examenelor de finalizare a studiilor în învățământul superior – examene de absolvire, licența, diploma, selecție, disertație 4033/ 2011*
3. *** - *Carta USAMV Cluj - Napoca;*
4. *** - *REGULAMENT ȘCOALA MASTERALĂ RC20 USAMV Cluj - Napoca;*
5. *** - *REGULAMENT PRIVIND ACTIVITATEA PROFESIONALĂ A STUDENȚILOR RC 41 USAMV Cluj - Napoca;*
6. *** - *GHIDUL STUDENTULUI USAMV Cluj - Napoca;*
7. *** - *Ghid pentru elaborarea proiectelor de disertație, USAMV Cluj - Napoca*
8. *** - *Ghidul NACMCF (National Advisory Committee on microbiological criteria for food)*
9. *** - *ISO 22000:2005*
10. *** - *Legea 150: 2004 privind siguranța alimentară*
11. *** - *Seria standarde ISO 9000*
12. *** - *Legea nr. 245 din 09/06/2004 - privind securitatea generală a produselor;*
13. *** - *Ordin nr. 1.956/1995 privind introducerea și aplicarea sistemului HACCP (Hazard Analysis Critical Control Point) în activitatea de supraveghere a condițiilor de igienă din sectorul alimentar;*
14. *** - *Ordin nr. 863/1995 pentru aprobarea Normelor de igienă privind producția, prelucrarea, depozitarea, păstrarea, transportul și desfacerea alimentelor, abrogat prin ordiunul 976/1998;*
15. *** - *Ordin nr. 611/1995 pentru aprobarea Normelor de igienă privind alimentele și protecția sanitară a acestora,*
16. *** - *Ordin al ministrului sănătății nr. 975/1998 privind aprobarea Normelor igienico-sanitare pentru alimente;*
17. *** - *Ordin al ministrului sănătății nr. 976/1998 pentru aprobarea Normelor de igienă privind producția, prelucrarea, depozitarea, păstrarea, transportul și desfacerea alimentelor;*

*** - *Hotărârea Guvernului nr. 1198/2002 pentru aprobarea Normelor de igienă a produselor alimentare*

Optional bibliography:

1. *Internal regulations, product specifications, sketches, location plans, etc*

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 content of the discipline is in accordance with the requests of specific national professional associations

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture		-	-
10.5. Seminar/Laboratory		Attendance at seminars and practical works Project verification during the semester Project presentation	15% 25% 60%
10.6. Minimum performance standards			
. The student will teach the list and will present orally the elaborated case study. Minimum standard: average grades min. 5			

¹ Education levels- choose of the three options: Bachelor/* Master/Ph.D.

² 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**



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(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

Laboratory work/seminar coordinator
Prof. Univ. Dr. Ramona Suharoschi

Prof. Univ.. Dr. Adriana Paucean

Filled in on
8.09.2021

Course coordinator

-

Subject coordinator

Prof. Univ. Dr. Ramona Suharoschi

Prof. Univ.. Dr. Adriana Paucean

Approved by the
Department on
22.09.2021

Head of the Department

Prof. Univ. Dr. Muste Sevastița

Approved by the Faculty
Council on
28.09.2021

Dean

Prof. Dr. Elena Mudura