



No. _____ of _____

USAMV form CN-0705020101

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	Faculty of Food Science and Technology
1.3. Department	Food Science
1.4. Field of study	Food Engineering
1.5. Education level	Master
1.6. Specialization/ Study programme	Food Processing and Quality Control Systems
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Nutrition and Health							
2.2. Course coordinator	Prof dr Ramona Suharoschi Lecturer dr Oana Lelia Pop							
2.3. Seminar/ laboratory/ project coordinator	Prof dr Ramona Suharoschi Lecturer dr Oana Lelia Pop							
2.4. Year of study	II	2.5. Semester	III	2.6. Type of evaluation	Continuous	2.7. Discipline status	Content ²	DD
							Compulsoriness ³	DI

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					ore
3.4.1. Study based on book, textbook, bibliography and notes					25
3.4.2. Additional documentation in the library, specialized electronic platforms and field					25
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					25
3.4.4. Tutorials					25
3.4.5. Examinations					8
3.4.6. Other activities					0
3.7. Total hours of individual study	108				
3.8. Total hours per semester	150				
3.9. Number of credits ⁴	6				

4. Prerequisites (is applicable)

4.1. curriculum-related	<i>Nutrition, Organisational Chemistry, Food Chemistry, Biochemistry, Mathematics and Statistics</i>
4.2. skills-related	The student must have knowledge of food macronutrients and micronutrients; specific, special, personalized food diets; chemical and biochemical characteristics of food



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	compounds; operating IT; office use (excel); internet browsing; qualities of individual work and participation in carrier development pathways
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5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the course. We do not allow any other activities during the lecture, mobile phones will be turned off. Classroom with adequate capacity, with multimedia equipment and internet connection
5.2. for the seminar/ laboratory/ project	Research laboratory - Molecular and Proteomic Nutrition LAB, CDS3, ISV, with endowment of cell biology, cell cultures; microarray platform; internet connection; teaching materials: specialized journals, specialized books During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory work). Academic discipline is imposed throughout the course of practical works.

6. Specific competences acquired

Professional competences	C1.1 Use of specialist knowledge for the evaluation, processing and interpretation of human nutrition data C3.1 - Identification and operation with the specific elements of technological, nutritional and dietary projects
Transversal competences	CT3 Carrying out a complex, interdisciplinary scientific work

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

7.1. Overall course objective	Learning and understanding the fundamental principles of personalized nutrition and the development of these dietary applications to analyze research projects in personalized nutrition and to plan balanced meals and dietary interventions addressed / applied both to healthy people and in various pathological conditions
7.2. Specific objectives	To understand eating behaviors / food choice by families or groups of people and the contribution of feeding systems to these behaviors; To understand the distribution and causes of nutritional disparities among populations using tools of epidemiology, medical and social sciences; To be able to interpret the results of personalized nutritional studies and make recommendations for a healthy diet; To know the food, nutritional and dietary risk factors that influence health.

8. Content

8.1.CURS Number of hours -14	Metode de predare	Observații
Introduction to nutritional sciences	Lecture, explanation and debate	1 hours
Cardiovascular disease and nutrition	Lecture, explanation and debate	1 hours



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Diabetes and nutrition	Lecture, explanation and debate	1 hours
Cancer and nutrition	Lecture, explanation and debate	1 hours
Obesity and Weight Management - and Nutrition	Lecture, explanation and debate	1 hours
Gastrointestinal tract diseases and nutrition	Lecture, explanation and debate	1 hours
Osteoporosis and nutrition	Lecture, explanation and debate	1 hours
Anaemia/Vitamin/mineral deficiency and nutrition	Lecture, explanation and debate	1 hours
Personalised diets and nutrition	Lecture, explanation and debate	1 hours
EUFIC The European Food Information Council http://www.eufic.org/index/en/ Diet-affections: Obesity Diet-affections: Cardiovascular Diet-affections: Diabetes Diet-affections: Osteoporosis Diet-affections: Dental affections Diet-affections: Nutritional deficiencies Diet-affections: Cancer	Lecture, explanation and debate	1 hours
EU and international research projects in the field of nutrition: EuroPrevall http://www.euoprevall.org/	Lecture, explanation and debate	1 hours
EU and international research projects in the field of nutrition: Diogenes - Tratează problema obezității: căutarea de noi înțelesuri si modalități de preventive http://www.diogenes-eu.org/	Lecture, explanation and debate	1 hours
EU and international research projects in the field of nutrition: NuGO - Nutrigenomics Organisation http://www.nugo.org/everyone	Lecture, explanation and debate	1 hours
EU and international research projects in the field of nutrition: Proiectul EPIC http://epic.iarc.fr/research/research.php	Lecture, explanation and debate	1 hours

8.2. PRACTICAL WORK Number of hours – 28		E.g. laboratory work
Design: Personalised Nutrition Plan (Personalised Nutrition) - Implementation of SMART Nutrition Targets	explanation, debate, questioning, case study	4 hours
Intervenții nutriționale (IN) – aplicații: BCV, diabet, ageing, copii, sportivi, alergii alimentare, intolerante alimentare, cancer, etc	explanation, debate, questioning, case study	4 hours
Brainstorming- Concept, Elaborare, Dezvoltare proiecte IN/ Aplicații	explanation, debate, questioning, case study	4 hours
IN – Elaborare Design experimental studii nutriționale	case study	4 hours
IN – Dezvoltare proiecte - studii nutriționale	case study	4 hours
IN – Implementare programe - studii nutriționale	case study	4 hours
Dezbatere si prezentarea proiectelor	case study	4 hours

Compulsory bibliography:

Food & Nutrition & Dietetics Journals (MDPI, PubMed, Science Direct)

1. Cartea alba - O strategie Europeana pentru Nutriție, Supraponderalitate si Obezitate legat dezafectarea stării de sănătate
2. REGULAMENTUL (CE) NR. 1924/2006 AL PARLAMENTULUI EUROPEAN ȘI AL CONSILIULUI. din 20 decembrie 2006. privind mențiunile nutriționale și de sănătate înscrise pe produsele alimentare
3. Recomandari nutriționale si dietetic, considerații privind sănătatea publica, si date acceptate științifice legate de dieta, nutritive si sănătate Autoritatea Europeana pentru Siguranța Alimentara (EFSA)



4. Opinii Științifice asupra Valorile Dietetice de Referința pentru proteine – Panel EFSA pentru produse Dietetice, Nutriție și Alergii
5. Opinii Științifice asupra semnificației mențiunilor nutriționale legate de izolatul proteic și reducerea concentrației colesterolului LDL sanguine. Articol 14 Regulament (EC) Nr 1924/2006
6. Ghid cerințe științifice pentru mențiunile legate de sănătatea ale antioxidanților, alterărilor oxidative și afecțiunile cardiovasculare

Optional bibliography:

1. *Journal of Nutrition Education*
2. *Nutrition*
3. *Journal of Nutrition*
4. *Nutrition Research*

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 knowledge taught in the course is necessary to know and understand the role of healthy eating and nutrition based on the principles of personalized nutrition in health care and the role of the food industry specialist in developing safe, attractive foods and exploiting the relationship between health and nutrition.

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Course debates on specific topic	Verification along semester - a number of 4 verifications are scheduled	35%
	Research volunteers, poster presentation, manuscript review - Talks, posters, manuscripts review	Theoretical and practical skills	5%
10.5. Seminar/Laboratory	Evaluation during the semester	Assignments	20%
	Final evaluation (the scheduled assignments)	Written exam	40%
10.6. Minimum performance standards			
Publication of min. 1 scientific article in a specialized journal or participation in min. 1 conference / symposium			

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** (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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	Titular curs	Titular lucrari laborator/seminarii
	Prof dr Ramona Suharoschi	Sef lucr dr Oana Lelia Pop
Data completării		
14.09.2021	Conf dr Romana Vulturar	Prof dr Ramona Suharoschi
		
	Coordonator disciplină	
	Prof dr Ramona Suharoschi	
		
Data avizării în departament	Director de departament	
22.09.2021	Prof dr Ramona Suharoschi	
		
Data avizării în Consiliul Facultății	Decan	
28.09.2021	Prof dr Elena Mudura	
	