



No. \_\_\_\_\_ of \_\_\_\_\_

USAMV form 0702030220

## 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 Science
1.4. Field of study	Agri-food engineering
1.5. Education level	Bachelor / Master
1.6. Specialization/ Study programme	Control and expertise of food products
1.7. Form of education	Full time

### 2. Information on the discipline

2.1. Name of the discipline	Ethics in food industry							
2.2. Course coordinator	Sl.Ph-D. Lucian Cuibus							
2.3. Seminar/ laboratory/ project coordinator	Sl.Ph-D. Lucian Cuibus							
2.4. Year of study	III	2.5. Semester	VI	2.6. Type of evaluation	Continue	2.7. Discipline	Content <sup>2</sup>	DS
							Compulsorine ss <sup>3</sup>	DO

### 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	1
3.4. Total number of hours in the curriculum	28	Out of which: 3.5. lecture	14	3.6. seminar/ laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					10
3.4.2. Additional documentation in the library, specialized electronic platforms and field					3
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					5
3.4.4. Tutorials					2
3.4.5. Examinations					2
3.4.6. Other activities					0
3.7. Total hours of individual study	22				
3.8. Total hours per semester	50				
3.9. Number of credits <sup>4</sup>	2				

### 4. Prerequisites (is applicable)

4.1. curriculum-related	
4.2. skills-related	.

### 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
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	be turned off.
5.2. for the seminar/ laboratory/ project	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	<p>C1</p> <p>Identify, describe and use the appropriate notions specific to food science and food safety.</p> <p>Development of the capacity for a multidisciplinary approach (biology, philosophy, anthropology, food engineering, etc.) of ethical aspects resulting from biotechnological applications;</p>
Transversal competences	<p>CT1</p> <p>Applying strategies of perseverance, rigor, efficiency and responsibility in work, punctuality and taking responsibility for the results of personal activity, creativity, common sense, analytical and critical thinking, problem solving, etc., based on the principles, norms and values of the code of professional ethics in the food field.</p> <p>Critical approach of some case studies on the approached topic; Clarification and analysis of their own ethical and bioethical opinions regarding the applications of biotechnology in bio industry, medicine, agriculture, environment, based on bioethical principles and risk-benefit analysis.</p>

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

7.1. Overall course objective	Familiarizing students with the fundamental concepts of methods and principles that guide research in the field of food biotechnology
7.2. Specific objectives	<p>Problematising the conflicting aspects of scientific progress and cutting-edge technologies in relation to established ethical values</p> <p>Sensitizing future specialists to comply with the rules of commercial, legal or self-regulatory communication</p>

## 8. Content

8.1. LECTURE Number of hours –	Teaching methods	Notes
	Lecture	1 lecture = 2 hours
Elements of classical and modern ethics; origins, issues and definitions	Lecture	1 lecture = 2 hours
<p>Various ethical models and issues of meta-ethics</p> <p>Cognitivism and non-cognitivism: Hume's law</p> <p>Descriptive ethics and the sociobiological model</p> <p>The subjectivist or liberal-radical model</p> <p>The pragmatic-utilitarian model</p> <p>The personalist model</p>	Lecture	1 lecture = 2 hours
<p>Natural Vs. Artificial</p> <p>Ethnobotany.</p> <p>Improved food</p> <p>Genetically modified foods</p>	Lecture	1 lecture = 2 hours
<p>Formation of bioethical thinking and research methodology in biosafety</p> <p>History on the evolution of issues and concepts</p>	Lecture	1 lecture = 2 hours



Ethics in biotechnology - economics, biotechnology and bioethics; bioethics and modern biotechnology techniques; genetically modified organisms - risks or actual or potential benefits of their use in bioindustry, agriculture, animal husbandry and the environment; Research ethics	Lecture	1 lecture = 2 hours
Biopirateria. Bioprospectarea. Biodiplomatia Studii de caz	Lecture	1 lecture = 2 hours
Elements of classical and modern ethics; origins, issues and definitions	Lecture	1 lecture = 2 hours

8.2. PRACTICAL WORK Number of hours –	Theoretical presentation of practical works	1 lab work (2 hours / work)
Introduction and presentation of the object Bioethics vs. Ethics. Presentation of the topics for the essay Information resources. Database. Professional bodies and organizations The relations between ethics, bioethics, politics and economics.	Lecture, case studies	1 lecture = 2 hours
Food ethics and biotechnology	Lecture	1/2
Food ethics and research in agro-food industry	Lecture	1/2
Ethics and genetically modified organism	Debate	1/2
Food safety	Debate	1/2
Food sovereignty	Debate	1/2
Slow Food vs Fast food	Debate	1/2
Fair Trade	Debate	1/2
Production of local organic food	Debate	1/2
Thematic seminar at the proposal of the students (essay established in the first meeting).	Debate	1
Final colloquium		1

**Compulsory bibliography:**

1. Corina Cătană, suport de curs disponibil pe platforma e-learning
2. Catana Corina, 2012 Bioetica. BioArt (spre publicare)
3. Ion Copoeru, 2007, Societatea românească post-totalitară: resemnificarea autonomiei individuale și a practicilor morale în profesii (with Nicoleta Szabo), in : Ion Copoeru, Nicoleta Szabo (coord.), *Dileme morale și autonomie în contextul democratizării și al integrării europene [Moral Dilemmas and Autonomy in the Context of Democratization and of the Access to EU]*, Casa Cărții de Știință, Cluj-Napoca, pp. 15-25.
4. Ion Copoeru, 2007, *Despre anonimitate. Încercare de explicare ontologic-fenomenologică a teoriei blagiene a Marelui Anonim*, in : Meridian Blaga II, CCS, Cluj-Napoca, 2002, p. 47-53.
5. Fraslin J.M., 2007, *Bioethics in life and environmental sciences*, Brumar, Timisoara, România;
6. Glenn, McGee, 2003, *Pragmatic Bioethics Basic Bioethics*, MIT Press;

Jamieson D., 2002, *Morality's Progress. Essays on Humans, Other Animals, and the Rest of Nature*. Oxford, Oxford University Press.

**Optional bibliography:**

- \* <http://bioethics.od.nih.gov>;
- \* [Bio-Science Law Review](#)
- \* [Ethical Theory and Moral Practice: An International Forum](#)
- \* [http://ec.europa.eu/european\\_group\\_ethics/index\\_en.htm](http://ec.europa.eu/european_group_ethics/index_en.htm);
- \* REVISTA ROMANA DE BIOETICA <http://www.bioetica.ro>.

**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 line with what is done in other university canterers in the country and abroad.

## 10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
<b>10.4. Lecture</b>	To understand the evolution of bioethical concepts reflected in national and international regulations specific to the field of biotechnology; To identify the legislative requirements and the limits of the current regulations; To develop specific skills as opinion formers in the issue of bioethics and biotechnology;	Verification	80%
<b>10.5. Seminar/Laboratory</b>	Development of critical thinking.	Final colloquium	20%
<b>10.6. Minimum performance standards</b>			
Minimum grade 5. Mastery of scientific information transmitted through lectures at an acceptable level and completion of an essay. Obtaining the passing grade for the ongoing checks is a condition of passability.			

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

<sup>2</sup> 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).

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

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

<sup>5/\*</sup> Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on  
8.09.2021

Course coordinator  
Sl.Ph-D. Lucian Cuibus

Laboratory work/seminar coordinator  
Sl.Ph-D. Lucian Cuibus

Subject coordinator  
Sl.Ph-D. Lucian Cuibus

Approved by the  
Department on  
22.09.2021

Head of the Department  
Prof. Ph-D. Ramona Suharoschi

Approved by the Faculty  
Council on  
28.09.2021

Dean  
Prof. Ph-D. Elena Mudura



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