UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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No._____of _____ **USAMV form 0709010214**

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	Food Engeneering
1.5.Cycle of study[1]	Master
1.6.Specialization/ Study programme	Gastronomy, Nutrition and Food Dietetics
1.7. Form of education	Full time

2. Information on the discipline

2.1. Discipline name	Applied biostatistics							
2.2. Course coordinator				Prof. dr. Diana Dumitraş				
2.3. Seminar/ laboratory/ project coordinator				Prof. dr. Diana Dumitraş				
2.4. Year of study	I	2.5. Semester	IU	2.6. Evaluation type	continuous	2.7. Discipline status	Content[2]	BD
							Compulsoriness [3]	OD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	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					20
3.4.2. Additional documentation in the library, electronic platforms and field experiences					20
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					35
3.4.4.Tutorials					10
3.4.5.Examinations					12
3.4.6. Other activities					
3.7. Total hours of individual study	97				
3.8. Total hours per semester	125				
3.9. Number of credits[4]	5				

4. Prerequisites (is applicable)

4.1. curriculum-related	Statistics, Informatics
4.2. skills-related	Efficient use of knowledge cumulated in the previous years of study

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive. Academic discipline requires attention from the beginning to the end of the course and respect for its schedule. There are not allowed any other disturbing activities during the lecture, mobile phones will be shut down.
5.2. for the seminar/ laboratory/ project	Applications will be solved by students for each theoretical topic presented at the course. The focus will be on the correct use of statistical methods, interpretation and applicatbility. The academic regulation is imposed during the class hours.
If the teaching activity will be carried out online, the teaching methods will be adapted.	

6. Specific competences acquired

Professional competences	- 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 - Use of knowledge on methods: experimental, expertise, sociological, statistical to assess the level of quality and safety of gastronomic products
Transversal competences	- Development of complex, interdisciplinary, individual projects

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

7.1. General objective	Learning the main concepts, principles and steps of conducting applied research in the field of study
7.2. Specific objectives	Knowledge of how to collect and organize data, statistical analysis, interpretation of results and their use in practice

8. Content

8.1.COURSE **Number of hours – 14**	Teaching methods	Notes
- Introduction to Biostatistics. Data collection and presentation.	Lecture	1 lecture
- Processing and analysis of data: Descriptive statistics	Lecture	2 lectures
- Processing and analysis of data: Regressions analysis and correlation	Lecture	2 lectures
- Processing and analysis of data: Hypothesis testing	Lecture	2 lectures

8.2. PRACTICAL WORK **Number of hours – 14**		
- Introduction to Biostatistics. Data collection and presentation. Exemples and discussions	Discussions	1 seminar
- Processing and analysis of data: Descriptive statistics. Exercises.	Exercises	2 seminars
- Processing and analysis of data: Regressions analysis and correlation. Exercises	Exercises	2 seminars
- Processing and analysis of data: Hypothesis testing. Exercises	Exercises	2 seminars
Compulsory bibliography: *Merce, E., C.C. Merce, D.E. Dumitras, 2011, Prelucrarea statistică a datelor, Editura AcademicPres, Cluj-Napoca* *Dumitraş, Diana E., 2012, Prelucrarea statistică a datelor, Cap. 18, p.189-215, In: Ecologie aplicată. Metode şi principii, Şandor M. (ed.), Ed. Digital Data, Cluj-Napoca, România*		
Optional bibliography: *Fowler, J., L. Cohen, P. Jarvis, 2000, Practical statistics for field biology, 2nd ed., John Wiley & Sons*		

9. Corroborating the dscipline content with the expectations of the epistemic community representatives, of the professional associations and of the relevant employers in the corresponding field

The content of the course is in accordance with what it is studied in other national and international universities, by using applications from the real world.

10. Evaluation

Type of activity	10.1. Evaluation criteria	10.2. Evaluation type	10.3. Percentage of the final grade
10.4. Course	Knowledge of theoretical aspects and their application in practice A logical and correct use of concepts and methods learned	- Exam	50%
10.5. Seminar/Laboratory	A logical and correct use of concepts and methods learned Project presentation	The following will be evaluated: - In-class activity - Assignments - Project presentation	50%
10.6. Minimum performance standards			
Mastering scientific information taught through lectures and practical work at an acceptable level.			

[1] Cycle of studies- 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), **FII** (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).

Filled in on
10.09.2021

Course coordinator
Prof. dr. Diana Dumitraş

Laboratory work/seminar coordinator
Prof. dr. Diana Dumitras

Discipline coordinator
Prof. dr. Diana Dumitras

Approved by the department on

Head of the Department
Prof. dr. Ramona Suharoschi

Approved by Faculty Council

Dean
Prof dr Elena Mudura