



Nr. _____ din _____

Formular USAMV 0107010225

SUBJECT OUTLINE

1. Information on the programme

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|--------------------------------------|--|
| 1.1. Higher education institution | University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca |
| 1.2. Faculty | Agriculture |
| 1.3. Department | Technical and Soil Science |
| 1.4. Field of study | Environmental Engineering |
| 1.5. Cycle of study ¹⁾ | Bachelor / Master |
| 1.6. Specialization/ Study programme | Agriculture |
| 1.7. Form of education | Full time |

2. Information on the discipline

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|---|--|---------------|---|----------------------|-----------|------------------------|-----------------------|----|
| 2.1. Discipline name | INNOVATION AND INVENTION | | | | | | | |
| 2.2. Course coordinator | Assoc.Professor PhD. MUNTEAN MIRCEA-VALENTIN | | | | | | | |
| 2.3. Seminar/ laboratory/ project coordinator | | | | | | | | |
| 2.4. Year of study | I | 2.5. Semester | I | 2.6. Evaluation type | Continous | 2.7. Discipline status | Content ²⁾ | DC |
| | | | | | | | Compulsoriness | DO |

3. Total estimated time (teaching hours per semester)

| | | | | | |
|---|----|---------------------------|----|-----------------------------------|-------|
| 3.1. Hours per week – full time programme | 1 | Out of wich: 3.2. lecture | 1 | 3.3. seminar/ laboratory/ project | 0 |
| 3.4. Total number of hours in the curriculum | 14 | Out of wich: 3.5. lecture | 14 | 3.6. seminar/laboratory | 0 |
| Distribution of the time allotted | | | | | hours |
| 3.4.1. Study based on books, textbooks, bibliography and notes | | | | | 10 |
| 3.4.2. Additional documentation in the library, electronic platforms and field experiences | | | | | 10 |
| 3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays | | | | | 6 |
| 3.4.4. Tutorials | | | | | 6 |
| 3.4.5. Examinations | | | | | 4 |
| 3.4.6. Other activities | | | | | |
| 3.7. Total hours of individual study | 36 | | | | |
| 3.8. Total hours per semester | 50 | | | | |
| 3.9. Number of credits ⁴⁾ | 2 | | | | |

4. Prerequisites (if applicable)

| | |
|-------------------------|---|
| 4.1. curriculum-related | mathematics, biophysics, biochemistry |
| 4.2. skills-related | The student must have knowledge of mathematics, chemistry, biophysics |

5. Conditions (if applicable)

| | |
|------------------------|---|
| 5.1. for the course | The course is interactive, illustrated with images and sketches in Power Point. It follows a direct answer of the information presented by questions and answers both from the students and the teacher. The university discipline requires the observance of the start and end time of the course. No other activities are tolerated during the lecture, mobile phones should be closed. |
| 5.2. for the seminar / | |

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

In order to identify ways of modernizing and continuously improving the teaching and the content of the courses, with the most current topics and practical problems, the teachers participate in the annual meeting of the Romanian Association of Food Industry Engineers, where current issues and perspectives of technologies are discussed. from Romania and Europe.

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 the types of inventions in agriculture and the food industry Knowledge of the types of inventions in medicine, chemical and textile industry. | Continuous 1-VP1 | 50% |
| | | Continuous 2-VP2 | 40% |
| 10.5. Seminar/Laboratory | | | |
| Attendance course | | | 10% |
| 10.6. Minimum performance standards | | | |
| Mastery of scientific information transmitted through lectures and practical papers at an acceptable level. The final grade, represents the weighted average of the verifications during the course, practical works and attendance at the course and is calculated with the relation: Final grade: $Vp1 \times 50\% \text{ grade} + Vp2 \text{ grade} \times 40\% + 10\% \text{ course attendance}$, with the mention that at least one of the notes from the checks in progress will be at least 5. | | | |

- 1 Cycle of studies - choose one of the three options: Bachelor/Master/Ph.D.
- 2 according to the educational plan
- 3 Discipline status (compulsoriness) - choose one of the options - DI (compulsory discipline) DO (optional discipline) DFac (facultative discipline).
- 4 One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on
04.09.2019

Course coordinator
Assoc.Professor, PhD. Muntean Mircea
Valentin

Approved by the
department on
05.09.2019

Head of the Department
Assoc.Professor, PhD. Ranta Ovidiu