

## Mountain Agriculture

### 1. Admission Requirements:

#### • Prerequisites:

- Successful completion of high school studies and obtaining a baccalaureate degree or equivalent.
- Non-EU Citizens - Contingent upon the presentation of the Graduation Certificate from the preparatory year (excluding those who have completed their previous studies in the Romanian language) and obtaining the Letter of Acceptance issued by the Ministry of Education.
- EU Citizens + Swiss Confederation - Contingent upon the presentation of the Graduation Certificate from the preparatory year (excluding those who have completed their previous studies in the Romanian language) and the recognition of their studies by the National Centre for Recognition and Equivalence of Diplomas (CNRED).

#### • Entrance Exams:

- The admission average of registered candidates is made up of: average of the baccalaureate exam - weight 100%.
- Admission to undergraduate studies is strictly in descending order of the general admission averages obtained by the candidates respecting the capacity of tuition for each study program

### 2. Degree Levels:

- Bachelor's Degree: 4-year program.

### 3. Curriculum:

#### • Core Courses:

**Mandatory courses** that all students in the program must take:

- Basis of Energetics
- Ecology and Environment Protection
- Animal Anatomy and Physiology
- Botany
- Plant Physiology
- General and Improvement Pedology
- Agricultural Machinery
- Forestry
- Pathology
- Pomology
- Crop Production

- Mountain Agrotourism
- Agricultural Mountain-Ecoproducts

• **Electives:**

- Protection of Mountain Ecosystems
- Ornamental Plants
- Oenology
- Wood Study and Exploitation

• **Major/Concentration:**

The program is designed to facilitate the training of engineers specializing in agricultural, horticulture, animal husbandry, and land exploitation sciences within hilly and mountainous regions. It offers a comprehensive foundation in agricultural technologies and management tailored specifically for application in these challenging terrains.

• **General Education Requirements:**

- Successful completion of the mandatory courses, seminars and labs, completion of the three internships and the bachelor thesis.

4. **Credits:**

- Each semester carries a weight of 30 ECTS, with a total of 240 ECTS required for graduation. An additional 10 ECTS is allocated to the diploma exam.

5. **Internships and Practical Experience:**

The curriculum is meticulously structured to provide students with a substantial 300 hours of practical experience, spanning from their first to the third year of study. This practical exposure is thoughtfully divided into field practice and specialty practice, ensuring a well-rounded engagement with various tasks that align closely with the specifics of their future professions.

To enhance this hands-on learning, the Faculty of Environmental Engineering and Food Science has established collaborative agreements with a diverse range of entities involved in agriculture, including animal farms, vegetable farms, and fruit farms. These partnerships are strategically designed to offer students a comprehensive and immersive understanding of their chosen field. Furthermore, in alignment with several European projects, the faculty has facilitated agreements that promote entrepreneurship activities. This initiative is particularly tailored for students in their third and fourth years of study, providing them with practical experiences that seamlessly connect the theoretical aspects of their field of study with the dynamic demands of the labor market. This multifaceted approach not only enriches their academic journey but also cultivates the skills essential for success in their future careers.

6. **Research Requirements:**

- The Bachelor thesis serves as an intricate engineering endeavor, systematically divided into essential segments that include an analysis of the current state of the theme, theoretical and applied contributions, and concluding insights with recommendations.
- In adherence to the curriculum, a substantial allocation of 120 hours (equivalent to 10 ECTS) is earmarked for the Bachelor thesis preparation practice. This intentional provision ensures that students have ample time and resources to engage in the thorough preparation required for this pivotal academic milestone.

#### **7. Academic Advising:**

- During each academic year, students are paired with a dedicated tutor from the teaching staff. This tutor serves as a guiding resource, assisting students in course selection, mapping out their academic trajectory, and addressing both professional and administrative concerns. This academic advisor provides continuous support from the first year of study through the fourth year. Acting as the intermediary between students and academic representatives, including teachers and management, communication is facilitated through various channels such as phone, email, and social media.

#### **8. Extracurricular Activities:**

- Students enrolled in the Mountain Agriculture program actively participate in a variety of extracurricular activities that closely align with their academic pursuits. These include engaging in workshops, attending symposia like the Student Research Symposium and conferences focused on specific themes such as Sustainable Development of Rural Areas. Additionally, students contribute to school dropout prevention activities and projects, and actively participate in Special Event Days, such as International Environment Day and GIS Day. This multifaceted involvement enhances their learning experience and broadens their perspective on the practical applications of their field of study.
- Complementing their involvement in academic and environmental initiatives, students maintain their own university-level organization—the Students League. This platform serves as a hub for student collaboration, fostering a sense of community and providing an avenue for collective engagement beyond the confines of their academic pursuits.

#### **9. Examinations:**

- The specific requirements for exams in a given discipline are explicitly outlined in the discipline syllabi. Professors communicate these requirements to students during the initial course session. Students must meet various criteria before taking the exam, which include active participation in all laboratory sessions, successful defense of the lab

colloquium, and the satisfactory completion and presentation of the semester project with a minimum acceptable grade. The specific criteria vary based on the nature and intricacies of each discipline.

#### **10. Thesis Defense:**

- The bachelor thesis undergoes a plagiarism check using specialized software before the decision is made to present it before a committee.
- The bachelor thesis is expected to fulfill all required content chapters with a focus on scientific rigor. It should demonstrate accurate calculations, draw conclusions grounded in evidence, and present information in a clear manner. The presentation is an opportunity to showcase the graduate's professional knowledge and cross-disciplinary skills.

#### **11. Graduation Requirements:**

- Students are required to accumulate all 240 ECTS, demonstrating successful completion of exams for all curriculum disciplines. The final examination is twofold, encompassing the assessment of fundamental and specialty knowledge alongside the defense of the bachelor thesis.

#### **12. Degree Awarding:**

- Bachelor's Degree (Engineer) in Mountain Agriculture.