

Systems for Control and Evaluation of Environmental Quality

1. Admission Requirements:

- **Prerequisites:**

- Graduates with a bachelor's degree from a bachelor's degree course or graduates with an equivalent degree from a long-term university course may apply for admission to the master's degree course.
- 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 process includes a structured interview on a predetermined topic.

2. Degree Levels:

- Master's Degree: 2-year program following a bachelor's degree.

3. Curriculum:

- **Core Courses:**

Mandatory courses that all students in the program must take:

- Bioremediation
- Air Pollution Control and Prevention
- Biodiversity of Anthropogenic Ecosystems
- Advanced Treating and Recycling Techniques and Methods of Wastes
- Transport and Dispersion of Pollutants

- **Electives:**

- Biological Methods for Evaluating the State of the Environment
- Techniques of Experimental Data Processing
- Sustainable Management of Forest Ecosystems

- **Major/Concentration:**

The program is designed to enhance overall understanding and proficiency in environmental protection while equipping participants with advanced skills in Environmental Engineering. Graduates of this

program, having completed a bachelor's cycle, are prepared for future endeavors in research activities, engineering design, and are well-positioned for admission into Ph.D. programs. The curriculum ensures a comprehensive and specialized education, fostering a strong foundation for graduates to contribute effectively to environmental sustainability and innovative engineering practices.

• **General Education Requirements:**

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

4. **Credits:**

- Each semester carries a weight of 30 ECTS, with a total of 120 ECTS required for graduation. An additional allocation of 10 ECTS is designated for the dissertation exam.

5. **Internships and Practical Experience:**

- Students benefit from an extensive 500 hours of practical experience. This hands-on involvement is thoughtfully divided, encompassing 250 hours dedicated to research practice and an additional 250 hours specifically allocated for the practical aspects involved in dissertation elaboration. This balanced and structured approach not only enhances theoretical understanding but also fosters the practical skills necessary for comprehensive academic and professional development.

6. **Research Requirements:**

- The dissertation serves as a solid engineering endeavor, meticulously divided into essential segments: an analysis of the current state of the theme, providing theoretical and applied contributions to address the theme, and culminating in thoughtfully crafted conclusions and recommendations.

7. **Academic Advising:**

- A supervising professor is assigned to each year of study and partially assisted activities are coordinated by supervising professors.
- The dissertation thesis is also supervised by a scientific supervisor.

8. **Extracurricular Activities:**

- Students actively engage in a variety of extracurricular activities closely aligned with their field of study, including workshops and symposia such as the Student Research Symposium. Additionally, they actively participate in Special Event Days focused on raising awareness of crucial issues like climate change and environmental degradation, as well as established events like International Environment Day and GIS Day.

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:

- Prior to defending the dissertation before a committee, a crucial initial step involves subjecting the work to a thorough plagiarism check using specialized software.
- The dissertation must encompass all required content chapters, ensuring scientific rigor, accurate calculations, and conclusions grounded in evidential data. The presentation should be clear, demonstrating the graduate's professional knowledge and transversal abilities.

11. Graduation Requirements:

- To fulfill program requirements, students must earn 120 ECTS by passing exams in all outlined disciplines. The culmination of their academic journey involves defending a dissertation during the final examination.

12. Degree Awarding:

- Master's Degree in Environmental Engineering (Systems for Control and Evaluation of Environmental Quality).