

Engineering and Management

1. Admission Requirements:

• Prerequisites:

- Successful completion of high school studies and obtaining a baccalaureate degree or equivalent.
- Proficiency in the Romanian language demonstrated by either a valid certificate or completion of a Romanian Preparatory year, which can be undertaken at our university or another accredited institution prior to submitting the application.
- Foreigners must obtain from the Ministry of Education the recognition of their studies before enrolling in the admission process.

• 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:

- Linear Algebra, Analytical, and Differential Geometry
- Mathematical Analysis
- Chemistry
- Technical Drawing and Infographics
- Applied Informatics
- Materials Science
- Physics
- Mechanics
- Materials Technology
- Basics of Economics
- Thermotechnics and Thermal Equipment
- Fluid Mechanics and Hydraulic Equipment
- Tolerances and Dimensional Control
- Resistance of Materials
- Economic Statistics
- Elements of Law

- Fundamentals of Management
- Mechanisms and Machine Parts
- Machining by Cutting
- Data Assisted Processing
- Measurement Technique
- Marketing
- Electronics
- Accounting
- Modeling and Simulation
- Production Management
- Actuators and Automations
- Quality Management
- Finance and Credit
- Supply and Distribution Logistics
- Tribology
- Manufacturing Technologies
- Process Equipment
- Commodity and Value Exchanges
- Flexible Processing Systems
- Reliability and Maintenance
- Entrepreneurship
- Computer-Aided Design.

- **Electives:**

- IT Systems in Management
- Managerial Communication
- Analysis and Diagnosis
- SME Management
- Project Management
- Innovation Management
- Sustainable Development of the Environment
- Management of the Simulated Enterprise
- Cost Calculation
- E-commerce
- Financial Law
- Commercial Law.

- **Major/Concentration:**

- The program cultivates the skills of future graduates, enabling them to proficiently engage in research, design, technological, and managerial development activities. It integrates engineering principles with business and management concepts. This

interdisciplinary approach aims to equip students with a versatile skill set, allowing them to bridge the gap between technical expertise and managerial proficiency. Students may study a broad range of subjects, including core engineering disciplines, business fundamentals, law, project management, and innovation strategies.

• **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.

5. **Internships and Practical Experience:**

- Students have the opportunity to carry out their internship in companies and enterprises in Dambovitá county and its surroundings, as well as in the teaching and research laboratories of the faculty or the Institute for Scientific and Multidisciplinary Research.
- II - Internship 1: 3 weeks x 30 hours = 90 hours.
- III - Internship 2: 3 weeks x 30 hours = 90 hours.
- IV - Internship for Bachelor's Thesis Project Development: 2 weeks x 30 hours = 60 hours.

6. **Research Requirements:**

- In order to present the bachelor's thesis, students are required to accrue the necessary number of credits (240 credits) and then prepare and deliver the bachelor's thesis.

7. **Academic Advising:**

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

8. **Extracurricular Activities:**

- Students have the option to participate in clubs, organizations, student scientific circles, or extracurricular activities related to their field of study or personal interests.

9. **Examinations:**

- The courses will span 14 weeks during each semester and conclude with oral, written, or practical examinations. Successful completion of these exams is mandatory to earn study credits.

10. **Thesis Defense:**

The prerequisites for presenting a bachelor thesis before a committee include:

- Attainment of 240 ECTS credits throughout the program.

- Obtaining the approval of the scientific supervisor to present the bachelor thesis.
- Credits for Practical Diploma Project Elaboration: 2 ECTS.
- Credits for Elaboration of the Diploma Project: 4 ECTS.

11. **Graduation Requirements:**

- Graduation necessitates the fulfilment of all program requirements, encompassing the completion of the required credit hours and the successful completion of the bachelor thesis.

12. **Degree Awarding:**

- Bachelor's Degree (Engineer) in Engineering and Management.