Mission
The Master of Science in Mechanical Engineering at the University of Cassino and Southern Lazio aims to prepare a mechanical engineer characterized by strong design skills, by the use of the most recent innovations in mechanical design methodologies, in materials choice and optimization, in new technologies, in modern and advanced production facilities, focusing on automation and optimization aspects of processes, energy management and environmental preservation. The degree is intended to train highly professional and competent technicians, able to work in the productive field, in Research and Development.

Admission
The MSc in Mechanical Engineering is open to candidates possessing a Bachelor's Degree (or a first-cycle degree equivalent to the Italian Laurea) in Mechanical Engineering or Industrial Engineering. The enrollment is subject to a preliminary assessment of the applicant's preparation.

Organization
The program lasts two years and has a workload of 120 ECTS, including classes, placement, and thesis. All activities are in English. The level of English required for this program is CEFR B2 (upper intermediate).

Career opportunities
The professional profile of a graduate student in Mechanical Engineering is an engineer capable of: designing components and mechanical systems; optimizing efficiency and environmental impact of production processes; conducting customer relationships; research and development of new products.

Top reasons to choose us
1) Scholarships and benefits for talented students
2) Student mobility within Europe
3) Friendly and stimulating learning environment
4) Close interaction with your professors
5) You’ll be prepared for a global career
6) Close to Rome, Naples, and many other Italian famous spots

Mandatory Courses
Mechanical Engineering Design
Measurement for industrial Automation
Advanced Numerical Heat and Mass Transfer
Advanced Power Systems
Kinematics and Dynamics of Mechanisms
Advanced Manufacturing Processes
System and Human Reliability

**Elective courses**

- Electromagnetic Compatibility for Industry Applications
- Electric Power Systems Engineering
- Hybrid and Electric Vehicles
- Introduction to Robotics
- Materials Science and Engineering
- Applied Metallurgy
- Design of Electronic Systems

**Other activities**

- Internship in enterprises, research centers, etc. (mandatory). Exchange programs in partner European universities. Master Thesis (mandatory).

http://www.uniclam.it/mechanical-engineering