

Mechatronics in Action: Design of Compliant Grippers for Soft Robotics

4 ECTS Blended Intensive Program

Organized by: Technical University of Cluj-Napoca

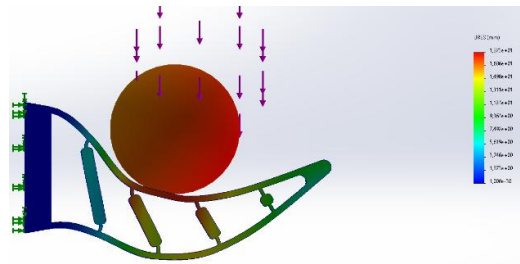
Program Dates

- Online: May–June 2026 (6 courses delivered online)
- On-site: 8–12 June 2026 (in-person attendance in Cluj-Napoca)

About the Program: This BIP immerses students in a multidisciplinary learning experience, with a focus on innovative compliant gripper design. Through a combination of online learning and a focused on-site practical week, participants experience the full development cycle, including design, simulation, prototyping, and testing.

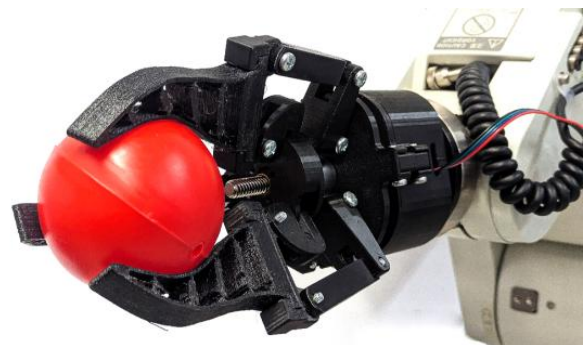
Online Activities:

- Introduction to soft robotics
- Fin-ray design principles
- FEA simulation of soft grippers
- Actuation system design
- Fabrication techniques (silicones, 3D printing)
- Experimental testing preparation



On-site Week Highlights:

- Design review and refinement
- 3D printing of components
- Assembly of the gripper prototype
- Grasping and performance tests
- Final presentations
- Social activities



Who Can Apply?

Bachelor's and Master's students enrolled in: Mechatronics, Industrial Engineering, Automation, or Mechanical Engineering programs.

Language Requirements: English (minimum B1 level)

How to Apply:

- Scan the QR code for enrollment

Contact Person:

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