



UNIVERSITÀ  
DEGLI STUDI  
DI BERGAMO

Dipartimento  
di Ingegneria  
e Scienze Applicate

# Double Degree

# **Mechatronics and Smart**

# **Technology Engineering (UniBg)**

# **& Mechatronics (Uni Stuttgart)**

# Why apply for a Double Degree program?

- Study in two different countries and broaden your cultural perspectives.
- Earn both an Italian and an international degree, boosting your competitiveness in the job market.
- Access to different study programs and complementary teaching methods.
- Take the opportunity to learn or improve additional languages.
- Start building a global network of academic and professional connections.



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# Double Degree between UniBg & Uni Stuttgart

Students get two M.Sc. degrees:

- **Mechatronics and Smart Technology Engineering** from University of Bergamo (IT)
- **Mechatronics** from University of Stuttgart (DE)

The application will be open to both students of the *Mechatronics and Smart Technology Engineering (STE)* curriculum from UniBg.

Students spend the 1<sup>st</sup> year at their home university and the 2<sup>nd</sup> at the partner university.



Final thesis in English, supervised by professors from both universities and presented at the host university according to local regulations.



# Course Structure - Curriculum Mechatronics

SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4
UniBg	UniBg	Uni Stuttgart	Uni Stuttgart
<p>Sustainable Energy (9 ECTS) ---</p> <p>Virtual and Physical Prototyping + Advanced Machine Design (module VPP) (6 ECTS) ---</p> <p>Smart sensors and electronic systems (9 ECTS) ---</p> <p>Functional design and dynamic modeling of mechanical systems (6 ECTS)</p>	<p>Power drive systems for mechanical machinery and vehicles (6ECTS) ---</p> <p>Mechanical vibrations (6 ECTS) ---</p> <p>Fundamentals of control systems OR Control system technology* (6 ECTS) ---</p> <p>Virtual and Physical Prototyping + Advanced Machine Design (module AMD) (6 ECTS) ---</p> <p>Choice between (6 ECTS):</p> <ul style="list-style-type: none"> <li>• Trasmissione del calore</li> <li>• Meccanica dei robot</li> <li>• IT architecture in production</li> <li>• Laboratorio di elettronica + Functional design of mechatronic systems</li> <li>• Progettazione FEM</li> <li>• Innovazione di prodotto e di processo</li> <li>• Industrial plant design and simulation</li> </ul>	<p>Control Technology of Machine tools and Industrial Robots (6 ECTS) ---</p> <p>Micro Technology and Microsystems Technology (6 ECTS) ---</p> <p>Research Project (18 ECTS)</p>	<p>Thesis work and final defence (30 ECTS)</p>
30 ECTS	30 ECTS	30 ECTS	30 ECTS



# Course Structure - Curriculum STE

SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4
UniBg	UniBg	Uni Stuttgart	Uni Stuttgart
Sustainable Energy + Thermal Physics for advanced technology (module SE) (9 ECTS) --- Sustainable Energy + Thermal Physics for advanced technology (module TP) (6 ECTS) --- Virtual and Physical Prototyping + Advanced Machine Design (module VPP) (6 ECTS) --- Smart sensors and electronic systems (9 ECTS)	Virtual and Physical Prototyping + Advanced Machine Design (module AMD) (6 ECTS) --- Industrial plant design and simulation (6 ECTS) --- Materials for advanced engineering applications (6 ECTS) --- Data science and automation (6 ECTS) --- Mechanical vibrations (6 ECTS)	Micro Technology and Microsystems Technology (6 ECTS) --- IT architecture in production (6 ECTS) --- Research Project (18 ECTS)	Thesis work and final defence (30 ECTS)
30 ECTS	30 ECTS	30 ECTS	30 ECTS



# Admission criteria and application procedure I/II

- UniBg and Uni Stuttgart can send **up to five students** to each other **annually**.
- By the **time of application**, students must present proof of their BSc studies and the latest transcript from their MSc studies at their home university for evaluation.
- At the **time of arrival** at the host university, students **must** have passed **at least 45 ECTS** from their first master year.
- Students must be enrolled at the host university on a **full-time** basis.
- Detailed admission criteria and application timeline will be published between January and early March. An internal call will precede the Erasmus+ program application.
- A minimum **English proficiency level** of **B2** is required. All information regarding language requirements for the Erasmus+ program and how to register for the test is available on the UniBg website.



# Admission criteria and application procedure II/II

- Students may refer to the evaluation criteria from the previous **two-stage selection** (academic record and, if applicable, interview) from the 2024–2025 call, provided as an example, since criteria may change for the current year.
- The upcoming call will be published on the course webpage; **scan the QR code** to visit the landing page.
- The program is **selective**, merit is assessed through academic performance, including **credits** earned and **grades** achieved.
- Candidates whose academic record and documentation do not meet the required threshold will not be admitted to the interview.
- Although the minimum requirement to participate in the second year in Stuttgart is 45 ECTS, students are strongly encouraged to complete all first-year courses before departure (60 ECTS).

