



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO

Dipartimento
di Ingegneria
e Scienze Applicate

Double Degree Mechatronics and Smart Technology Engineering (UniBg) & Mechatronics (Uni Stuttgart)

study plan

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"> • Trasmissione del calore • Meccanica dei robot • IT architecture in production • Laboratorio di elettronica + Functional design of mechatronic systems • Progettazione FEM • Innovazione di prodotto e di processo • Industrial plant design and simulation 	<p>Micro Technology and Microsystems Technology (6 ECTS) ---</p> <p>Control Technology of Machine tools and Industrial Robots (6 ECTS) ---</p> <p>Research Project (18 ECTS)</p>	<p>Thesis work and final defense (30 ECTS)</p>
30 ECTS	30 ECTS	30 ECTS	30 ECTS



Course Structure - Curriculum Smart Technology Engineering

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