

Track “Sustainable Materials and Design”

This track is focused on industrial and product sustainability, such as material selection for sustainable design, material technology and recycling, green design, lightweight design, energy management in industry and circular economy.



Compulsory Courses (for all Tracks)

Year	Semester	Teaching	ECTS
I	1	Mechanics of Materials and Structures	9
I	1	Advanced Thermodynamics	9
I	1	Metallic alloys for product innovation	9
I	2	Dynamics and Vibrations	9
II	1	Product and manufacturing engineering	9
II	1	Assembly Systems and Logistics	9
II	1	Product Development and innovation	9

Compulsory Courses for the Track

Year	Semester	Teaching	ECTS
I	2	Energy management in industry	6
I	2	Lightweight design with composites	6
I	2	Selection criteria of metallic alloys	6
I	2	Maintenance Management*	6
II	1	Additive manufacturing*	6

* One course to be chosen from these two

Elective Courses for the Track

Year	Semester	Teaching	ECTS
II	1	Advanced Design with polymers and polymeric composites	6
I	2	Polymers Technology and Recycling	6
I	2	Urban Mining and Circular Economy	6

Internship: 6 ECTS

Final Project: 15 ECTS