

APPENDIX A to the Addendum for Double Master's Degrees between Chalmers tekniska högskola and Universität Stuttgart

Double Master's Degree Scheme

The attached MACROPLAN depicts the 2-year MSc double degree structure in **Materials Engineering at Chalmers** and in **Materialwissenschaft (Materials Science) at U Stuttgart**. It shows the compulsory and elective courses in each semester as well as the prerequisites for students wishing to spend their 2nd year at the partner institution.

Semester 1		Semester 2		Semester 3		Semester 4	
Chalmers students at Chalmers	Stuttgart students in Stuttgart	Chalmers students at Chalmers	Stuttgart students in Stuttgart	Chalmers students in Stuttgart	Stuttgart students at Chalmers	Chalmers students in Stuttgart	Stuttgart students at Chalmers
Materials Engineering (15 ECTS)	Synthesis and Properties of Inorganic Materials (6 ECTS)	Phase transformations (7,5 ECTS)	Atomic Transport and Phase Transformations (6 ECTS)	Practical Skills and Project Planning (6 ECTS)	Manufacturing Processes (7,5 ECTS) OR Composite and Nanocomposite Materials (7,5 ECTS)	Master Thesis (30 ECTS)	Master Thesis (30 ECTS)
Characterisation of Materials and Failure Analysis (7,5 ECTS)	Advanced Materials Science Laboratory (9 ECTS)	Additive Manufacturing (7,5 ECTS)	Polymer Materials Science (9 ECTS)	Advanced Science Seminar (6 ECTS)	Digital twin – Metal processing (7,5 ECTS)		
Mechanical Performance of Engineering Materials (7,5 ECTS)	Materials Science Specialisation (9 ECTS)	Elective (7,5 ECTS)	Materials Science Specialisation (9 ECTS)	Materials Science Specialisation Profile* (18 ECTS)	Tailored Materials and Commercialization Aspects (7,5 ECTS)		
	Elective (6 ECTS)	Metal Forming and Joining (7,5 ECTS)	Elective (6 ECTS)		Soft material processing meet digital twin (7,5 ECTS) OR Mechanical Performance of Engineering Materials (7,5 ECTS)		
Σ ECTS = 30	Σ ECTS = 30	Σ ECTS = 30	Σ ECTS =30	Σ ECTS = 30	Σ ECTS = 30	Σ ECTS = 30	Σ ECTS = 30
Elective Course or Spezialisierungsfach has to be chosen so that "Embedded Control Systems" is accounted for by Chalmers unless EZDV had been taken previously in the Bachelor's Programme at USt				Internship is accounted for as "Design Project in SCM" is a compulsory course for Chalmers students and a recommended course for US students			
Course code: C = compulsory; E = elective; SC = semi compulsory; R = recommended							

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*)Specialisation profiles

Metals and Structural Materials

Materials Theory and Simulation

Nanomaterials and Nanostructures

Soft Matter and Biomaterials

Inorganic Materials Chemistry

Functional Materials

Advanced Materials Characterization