

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.

Modules separated by a horizontal line are offered in yearly alternation.

| 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 |
| Metals Engineering (7,5 ECTS) | Synthesis and Properties of Inorganic Materials (6 ECTS) | Corrosion / Additive Manufacturing / Materials mechanics (7,5 ECTS) | Atomic Transport and Phase Transformations (6 ECTS) | Practical Skills and Project Planing (6 ECTS) | Manufacturing Processes (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) | Ceramic Engineering (7,5 ECTS) | Polymer Materials Science (9 ECTS) | Advanced Science Seminar (6 ECTS) | Composite and Nanocomposite Materials (optional) (7,5 ECTS) | | |
| Polymer processing and properties (7,5 ECTS) | Materials Science Specialisation (6 ECTS) | Elective (7,5 ECTS) | Materials Science Specialisation (12 ECTS) | Materials Science Specialisation Profile* (18 ECTS) | Metals Engineering (7,5 ECTS) | | |
| Mechanical Performance of Engineering Materials (7,5 ECTS) | Elective (6 ECTS) | Metal Forming and Joining (7,5 ECTS) | Elective (3 ECTS) | | Innovation and Novel Design of Materials (7,5 ECTS) | | |
| | | | | | Mechanical Performance of Engineering Materials (7,5 ECTS) | | |
| Σ ECTS = 30 | Σ ECTS = 27 | Σ ECTS = 33 | Σ ECTS =33 | 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 US | | | | 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