

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 **Systems, Control and Mechatronics at Chalmers** and in **Mechatronik 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
Modelling and Simulation (C) (7,5 Credits) Discrete Event Systems (C) (7,5 Credits) Linear Control System Design (C) (7,5 Credits) Simulation of Production Systems (Project) OR Applied Signal Processing (SC) (7,5 Credits)	Control Technology for Machine Tools and Industrial Robots (VM G1) (6,0 Credits) Concepts of Systems and Control Theory (VM G2) (6,0 Credits) Specialisation Course 1 Compulsory Module from "System Dynamics": Discrete Event Systems (6,0 Credits) Specialisation Course 1 Additional Module 1 from "System Dynamics" or "Automatic Control" (6,0 Credits) Soft-Skills (6,0 Credits)	Embedded Control Systems (C) (7,5 Credits) Mechatronic Design (SC) (7,5 Credits) Discrete Event Control and Optimization (SC) (7,5 Credits) Elective Course from "Automation" OR "Mechatronics and Embedded Systems" OR "Mechatronics in Mechanics" OR "Power Systems" OR "Control and Signal Processing" (R) (7,5 Credits)	Simulation Methods for Dynamic Systems (VM G4) (6,0 Credits) Embedded Systems Engineering (VM G3) (6,0 Credits) Internship (12,0 Credits) Specialisation Course 1 Additional Module 2 from "System Dynamics" or "Automatic Control" (6,0 Credits)	Industrial Control and Electrical Drives (VM G1) (6,0 Credits) Project Work (students research work) (12 Credits) Internship (12 Credits)	Design Project in Systems, Control and Mechatronics (7,5 Credits) Simulation of Production Systems (7,5 Credits) Elective Course from "Automation" OR "Mechatronics and Embedded Systems" OR "Mechatronics in Mechanics" OR "Power Systems" OR "Control and Signal Processing" (7,5 Credits) Elective Course from "Automation" OR "Mechatronics and Embedded Systems" OR "Mechatronics in Mechanics" OR "Power Systems" OR "Control and Signal Processing" (7,5 Credits)	Master Thesis (30 ECTS)	Master Thesis (30 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
Course code: C = compulsory; SC = semi compulsory; R = recommended			G: Gruppe VM: Vertiefungsmodul SA: Studienarbeit (Project work, student research work) SP: Specialisation Course				