

## Mechatronics

Sem.	Title	Course Type	Hours per week	ECTS Credits	Language
WS	Aquisition and Analysis of Measured Electrical Signals	Lecture	2	3	G/E
WS	Aquisition and Analysis of Measured Electrical Signals	Tutorial	2	2	G/E
WS	Optical Measurement Methods	Lecture	2	3	G/E
WS	Communications Engineering	Lecture	2	3	G/E
WS	Communications Engineering	Tutorial	1	1	G/E
WS	Mobile Communications	Lecture	2	3	G/E
WS	Modern Communication Systems	Lecture	2	3	G/E
WS	Modern Communication Systems	Tutorial	1	1	G/E
WS	Hydraulics and Pneumatics	Seminar	2	3	G/E
WS	Systematic Design	Lecture	2	3	G/E
WS	Seminar on Control Theory	Seminar	2	3	G/E
WS	Project Seminar Automatic Control	Seminar	6	10	G/E
WS	Automatic Control	Seminar	2	3	G/E
WS	Control System Design in Mechatronics I	Combined C.	3	4,5	G/E
WS	Mechatrical Systems in Automotive Engineering I	Lecture	2	3	G/E
WS	Special Topics of Control Systems Design	Lecture	2	3	E
WS	Telemedia 2	Lecture	2	3	E
WS	Function Materials	Lecture	2	3	E
WS	Natural Scientific Methods, Project Seminar	Seminar	6	10	E
WS	Project Seminar in Accordance with the Department	Project	6	10	G/E
SS	Integrated Circuits - Microsystems	Seminar	2	3	G/E
SS	Statistical Signal Processing	Lecture	2	3	G/E
SS	Statistical Signal Processing	Tutorial	2	2	G/E
SS	High Precision Measurements Techniques	Lecture	2	3	G/E
SS	Optical Measurement Systems	Practical C.	3	6	G/E
SS	Acquisition and Analysis of Measured Electrical Signals	Practical C.	3	6	G/E
SS	Digital Communication Systems	Practical C.	3	6	G/E
SS	Radio Frequency Engineering	Practical C.	2	4	G/E
SS	Digital Signal Processing	Practical C.	3	6	G/E
SS	Radio Frequency Engineering	Lecture	2	3	G/E
SS	Radio Frequency Engineering	Tutorial	1	1	G/E
SS	Digital Signal Processing for Mechatronics	Lecture	2	3	G/E
SS	Digital Communication Systems	Tutorial	1	1	G/E
SS	Digital Communication Systems	Lecture	2	3	G/E
SS	Project Seminar Communication Techniques	Seminar	6	10	G/E
SS	Hydraulics and Pneumatics I	Lecture	3	4,5	G/E
SS	Hydraulics and Pneumatics I	Practical C.	3	6	G/E
SS	Servo Hydraulics	Tutorial	1	1	G/E
SS	Numerical Methods in Fluid Dynamics	Lecture	2	3	G/E
SS	Practical Training in Computational Fluid Dynamics	Practical C.	3	6	G/E
SS	Seminar on Nonlinear Systems in Control Theory	Seminar	2	3	G/E
SS	Project Seminar Automatic Control	Seminar	6	10	G/E
SS	Automatic Control	Seminar	2	3	G/E
SS	Control System Design in Mechatronics II	Seminar	1	1,5	G/E
SS	Control System Design in Mechatronics II	Practical C.	2	4	G/E
SS	Identification and Adaptive Control	Practical C.	2	4	G/E
SS	Practical Training: Telemedia	Practical C.	2	3	E
SS	Project Seminar in Accordance with the Department	Project	6	10	G/E

WS = Winter Semester, SS = Summer Semester; E = English, G/E = in English if requested, otherwise in German