

Courses for Non-Degree Exchange Students taught in English in the School of Engineering

Undergraduate Courses (Bachelor Level)

Level (Bachelor/Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
Bachelor	IPE 06 01 Foundations of Project Leadership	2	Every Semester	2	Written exam	Graded	Brune
Bachelor	IPE 06 02 Foundations of Project Planning	2	Every Semester	3	Written exam	Graded	Brune
Bachelor	IPE 13 Computer Science for Engineers	4	Every Semester	6	Project work PA	Graded	Taefi
Bachelor	IPE 16 Project Budgeting and Controlling	4	Every Semester	5	Written exam	Graded	Brüsch
Bachelor	IPE 19 Control Engineering lecture + Laboratory	6	Every Semester	7	Written exam, Lab report	Graded	Taefi
Bachelor	IPE 20 Plant Engineering	4	Every Semester	6	exam	Graded	Samland
Bachelor	IPE 21 01 Project Management Certification	2	Every Semester	2	Written exam	Graded	Lehmann
Bachelor	IPE 21 02 Project Management Simulation	2	Every Semester	2	Written exam	Graded	Rundel
Bachelor	IPE 22 01 Quality Management Systems	2	Every Semester	3	Written exam	Graded	Koch
Bachelor	IPE 23 Intercultural Communication	2	Every Semester	3	Written seminar paper, group presentation	Graded	Reich
Bachelor	IPE 25 Scientific Methods	2	Every Semester	2	Continuous Assessment (CA)	Graded	Taefi
Bachelor	IPE 29 01 Cultural Change Management	2	Every Semester	3	Case study, written exam	Graded	Sattler
Bachelor	PE 30 01 Management and Leadership	4	Every Semester	5	Written exam, project assignment	Graded	Reich
Bachelor	IPE 30 02 Managing Human Resources	2	Every Semester	3	Written exam, project assignment	Graded	Reich
Bachelor	IPE 34 01 Product and Innovation Management	2	Every Semester	3	Written exam	Graded	Pihulak
Bachelor	IPE 34 02 Information Management	2	Every Semester	3	Written exam	Graded	Brüsch
Bachelor	MBB18 02 Design Methodology	2	Every Semester	3	Project, presentation, oral exam	Graded	Ritter
Bachelor	MBB 29 02 Rapid Product Development	2	Every Semester	3	Group project, presentation	Graded	Lauxmann
Bachelor	MBB 29 Applied Acoustics	2	Every Semester	3	Written exam	Graded	Pitsch

Level (Bachelor/ Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
Bachelor	MEB 18a 01 PLC Control Systems	2	Every Semester	3	Written exam	Graded	Zenner
Bachelor	MEB 18a 02 PLC Control Systems Laboratory	2	Every Semester	2	Lab report	Ungraded	Zenner
Bachelor	MEB 22a 02 Electrical Drives	3	Every Semester	4	Written exam	Graded	Schullerus
Bachelor	MEB 23a 01 Communication Systems	2	Every Semester	3	Written exam	Graded	Zenner
Bachelor	MEB 23a 02 Communication Systems Laboratory	1	Every Semester	1	Lab report	Ungraded	Bühler
Bachelor	MEB 22b Power Electronics Laboratory	2	Every Semester	3	Lab report	Ungraded	Schullerus

Postgraduate Courses (Master Level)

Level (Bachelor/ Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
Master	MBM 02 01 Numerical Analysis	2	Every Semester	3	Written exam, assignment	Graded	Priwitzer
Master	MBM 02 02 Partial Differential Equations	2	Every Semester	3	Written exam, assignment	Graded	Honegger
Master	MBM 07a Numerical Structural Mechanics	6	Every Semester	7	Written exam, assignment, presentations	Graded	Lauxmann
Master	MBM 03 Basic Principles of Energy Conversion	2	Every Semester	3	Written exam, project, presentation	Graded	Truckenmüller
Master	MBM Heat Transfer	4	Winter Semester	6	Written exam,	Graded	Thomas
Master	MEM W 08 Renewable Energies	2	Every Semester	3	Written exam	Graded	Coll-Mayor
Master	MEM W 20 Distributed control in power grids	2	Every Semester	3	Written exam, oral presentation	Graded	Coll-Mayor/Not holt
Master	MEM 06 01 Control Systems	2	Every Semester	3	Written exam	Graded	Zenner
Master	MEM 06 02 Control Systems Laboratory	2	Every Semester	2	Lab report	Ungraded	Zenner
Master	MEM W 06 01 Electromagnetic Compatibility Lecture	2	Every Semester	3	Written exam	Graded	Pouhè
Master	MEM W 06 02 Electromagnetic Compatibility Laboratory	2	Every Semester	3	Lab report	Ungraded	Pouhè
Master	MEM 02 Smart Sensor and Control Systems Laboratory	3	Every Semester	3	Lab report	Ungraded	Mack

Level (Bachelor/ Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
Master	MEM W 11 01 Human Robot Collaboration	2	Every Semester	3	report, final presentation, documentation	Graded	Rätsch
Master	MEM W 11 02 Human Robot Collaboration – Project	2	Every Semester	3	report, final presentation, documentation	Graded	Rätsch
Master	MEM 07 01 Machine Vision and Artificial Intelligence	5	Every Semester	6	report, final presentation, documentation, oral exam	Graded	Rätsch
Master	DEE 07b Distributed Economy in the Energy Sector	2	Every Semester	3	Written exam, project, presentation	Graded	Coll-Mayor
Master	LEM 12 Microwave Circuit Design	6	Winter semester	6	Exam	Graded	Kallfass

Project Opportunities for Undergraduate and Postgraduate Students

Please note: Project positions will be offered on demand for a limited number of students and only if a professor agrees to act as project supervisor. For detailed instructions, see the PDF document “Course Catalogue Engineering”.

Level (Bachelor/ Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
Bachelor/ Master	Semester Engineering Project		Every Semester	6	Documentation of work, report	Graded	Various
Bachelor/ Master	Semester Engineering Project		Every Semester	15	Documentation of work, report	Graded	Various
Bachelor/ Master	Semester Engineering Project		Every Semester	30	Documentation of work, report	Graded	Various