

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

**Offered in winter semester (September – February)**

### 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	IPE11-01 International Investment and Finance	2	Every Semester	2	Written exam	Graded	Brüsch
Bachelor	IPE 011 -2 Managerial Accounting and Finance	2	Every Semester	3	Written exam	Graded	Brüsch
Bachelor	IPE 13 Computer Science for Engineers	4	Every Semester	6	Project work PA	Graded	Ewecker
Bachelor	IPE 16 Project Budgeting and Controlling	4	Every Semester	5	Written exam	Graded	Brüsch
Bachelor	IPE 20 Plant Engineering	4	Every Semester	6	Written exam	Graded	Samland
Bachelor	IPE 21 02 Project Management Simulation	2	Every Semester	2	Written exam	Graded	Irmeler
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	3	Continuous Assessment (CA)	Graded	N.N.
Bachelor	IPE 27-01 Smart Systems	4	Every Semester	6	Project Work	Graded	N.N.
Bachelor	IPE 29 01 Cultural Change Management	2	Every Semester	3	Written exam	Graded	Sattler

Level (Bachelor/Master)	Course Title	Contact hours / week	Offered Winter/Summer	ECTS Credits	Type of assessment	Graded/ungraded	Lecturer
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	IPE W05 Supply Chain Management	2	Every Semester	3	<b>Project Work</b>	Graded	Brüsch
<b>Only offered in English if demanded by minimum 5 international students:</b>							
Bachelor	MBB Heat Transfer	4	Winter Semester	6	Written exam,	Graded	Thomas
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	Winter Semester	3	Written exam	Graded	Pitsch
Bachelor	MEB 22a 02 Electrical Drives	3	Every Semester	4	Written exam	Graded	Schullerus
Bachelor	MEB Interactive Robots in Motion	2	Every Semester	3	Presentation, documentation	graded	Rätsch
Bachelor	MEB 22b Power Electronics Laboratory	2	Every Semester	3	Lab report	Ungraded	Schullerus
Bachelor	MEB Semiconductor Devices	6	Every Semester	4	Oral exam 20min	Graded	Sönmez
<b>Winter Semester 2021/22: only offered in English if courses take place entirely on campus, not online.</b>							
Bachelor	MEB 18a 01 PLC Control Systems	2	Winter Semester	3	Written exam	Graded	Zenner
Bachelor	MEB 18a 02 PLC Control Systems Laboratory	2	Winter Semester	2	Lab report	Ungraded	Zenner
Bachelor	MEB 23a 01 Communication Systems	2	Winter Semester	3	Written exam	Graded	Zenner
Bachelor	MEB 23a 02 Communication Systems Laboratory	1	Winter Semester	1	Lab report	Ungraded	Bühler

**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
<b>Only offered in English if demanded by minimum 3 international students:</b>							
Master	MBM 07 Numerical Structural Mechanics	6	Every Semester	7	Written exam, assignment, presentations	Graded	Lauxmann
Master	MBM 03 Basic Principles of Energy Conversion	2	Winter Semester	3	Written exam, project, presentation	Graded	Truckenmüller
<b>Winter Semester 2021/22: only offered in English if courses take place entirely on campus, not online.</b>							
Master	MEM 06 01 Control Systems	2	Winter Semester	3	Written exam	Graded	Zenner
Master	MEM 06 02 Control Systems Laboratory	2	Winter Semester	2	Lab report	Ungraded	Zenner
Master	MEM W 08 Renewable Energies	2	Every Semester	3	Presentation, seminar paper	Graded	Coll-Mayor
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
<b>Only offered in English if demanded by minimum 5 international students:</b>							
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

### 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. [Click here for detailed instructions](#),

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	10	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