

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 | Danner |
| Bachelor | IPE 16 Project Budgeting and Controlling | 4 | Every Semester | 5 | Project work | Graded | Brüsch |
| Bachelor | Control Engineering lecture + Laboratory | 6 | Every Semester | 6 | Written exam, Lab report | Graded | Notholt |
| Bachelor | IPE 20 Plant Engineering | 4 | Every Semester | 6 | Written exam | Graded | Samland |
| Bachelor | IPE 21 02 Project Management Certification | 2 | Every Semester | 2 | Written exam | Graded | Roske |
| 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 | Casellato |
| Bachelor | IPE 27-01 Smart Systems | 4 | Every Semester | 6 | Project Work | Graded | Schatz |
| Bachelor | IPE 29 01 Cultural Change Management | 2 | Every Semester | 3 | 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 |

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|--|---|----------------------|------------------------|--------------|----------------------------------|------------------|------------|
| Bachelor | IPE 34 01 Product and Innovation Management | 2 | Every Semester | 3 | Oral exam | Graded | Pihulak |
| Bachelor | IPE 34 02 Information Management | 2 | Every Semester | 3 | Oral exam | Graded | Brüsch |
| Bachelor | IPE W05 Supply Chain Management | 2 | Every Semester | 3 | Project Work | Graded | Brüsch |
| Only offered in English if demanded by minimum 5 international students: | | | | | | | |
| 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 | Ulrich |
| Bachelor | MEB Semiconductor Devices | 6 | Every Semester | 4 | Oral exam 20min | Graded | Sönmez |
| 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 |
| Only offered in English if demanded by minimum 3 international students: | | | | | | | |
| 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 | Winter Semester | 3 | Written exam, project, presentation | Graded | Truckenmüller |
| 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 |
| Only offered in English if demanded by minimum 5 international students: | | | | | | | |
| 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](#),

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|--------------------------|------------------------------|----------------------|------------------------|--------------|-------------------------------|------------------|----------|
| 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 |