

Courses for Non-Degree Exchange Students
taught in English in the School of Engineering
Offered in Summer Semester (March-July)

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Undergraduate Courses (Bachelor Level)

International Project Engineering Study Programme								
Code	Level (Bachelor/Master)	Course Title	Contact hours / week	Offered Winter/Summer	ECTS Credits	Type of assessment	Graded/ungraded	Lecturer
620011	Bachelor	IPE Foundations of Project Leadership	2	Every Semester	2	Written exam	Graded	Brune
620021	Bachelor	IPE Foundations of Project Planning	2	Every Semester	3	Written exam	Graded	Brune
620561	Bachelor	IPE Accounting	2	Every Semester	3	Oral exam 15 min	Graded	Klein
620061	Bachelor	IPE Project Budgeting and Controlling	4	Every Semester	5	Written exam 2h + Lab TES	Graded	Ribeiro / Stadlmeier
620081	Bachelor	IPE Plant Engineering	4	Every Semester	6	Written exam	Graded	Samlan d
620091	Bachelor	IPE Project Management Certification	2	Every Semester	2	Written exam 1h	Graded	Lehman n
620101	Bachelor	IPE Project Lab	1	Every Semester	2	Attestation TES	Ungrade d	Schmid

62012 1	Bachelor	IPE Intercultural Communication	4	Every Semester	5	Written seminar paper, group presentation	Graded	Reich
62013 1	Bachelor	IPE Scientific Methods	2	Every Semester	3	Continuous Assessment (CA)	Graded	Casellato
62014 1	Bachelor	IPE Smart Systems	4	Every Semester	6	Project Work (PA)	Graded	Notholt, Wachter
62015 1	Bachelor	IPE Cultural Change Management	2	Every Semester	3	Written exam, case studies	Graded	Sattler
62016 1	Bachelor	IPE Management and Leadership	4	Every Semester	5	Written exam, project assignment	Graded	Reich
62017 1	Bachelor	IPE Managing Human Resources	2	Every Semester	3	Written exam, project assignment	Graded	Churchill
62018 1	Bachelor	IPE Product and Innovation Management	2	Every Semester	3	Oral exam 15 min	Graded	Pihulak
62019 1	Bachelor	IPE Information Management	2	Every Semester	3	Oral exam 15 min	Graded	Gabriel

Mechanical Engineering Study Programme

62021 1	Bachelor	MBB Finite Element Method	2	Every Semester	3	Group project, presentation	Graded	Lauxmann
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Note: Finite Element Method will only be offered in English if the course is demanded by minimum 2 international students. Course will not be offered in Spring 2024.

620221	Bachelor	MBB Design Methodology	2	Every Semester	3	Assignments	Graded	Ritter
620341	Bachelor	MBM Heat Transfer	4	Every Semester	6	Written exam	Graded	Thomas

Note: Heat Transfer is offered with reservation. Open for exchange students only after consultation with the International Coordinator (Nadja Lobensteiner). Course will not be offered in Spring 2024.

Mechatronics Study Programme

62023 1	Bachelor	MEB Electrical Drives Lecture & Lab	3	Every Semester	4	Written exam	Graded	Schullerus
62024 1	Bachelor	MEB Interactive Robots in Motion	2	Every Semester	3	Presentation, documentation	Graded	Rätsch
62036 1	Bachelor	MEB Power Electronics Laboratory	2	Every Semester	3	Lab report	Ungraded	Ulrich

62026 1	Bachelor	MEB Semiconductor Devices	6	Every Semester	5	Oral exam 20min	Graded	Sönmez
62037 1	Bachelor	MEB PLC Control Systems Laboratory	2	Every Semester	2	Lab report	Ungrade d	Zenner
62039 1	Bachelor	MEB Communication Systems Laboratory	1	Every Semester	1	Lab report	Ungrade d	Zenner

Postgraduate Courses (Master Level)

Mechanical Engineering Study Programme								
Code	Level (Bachelor/Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
625011	Master	MBM Numerical Analysis	2	Every Semester	3	problem sheets + Written exam	Graded	Priwitzer
625021	Master	MBM Partial Differential Equations	2	Every Semester	3	Written exam	Graded	Honegger
625031	Master	Numerical Structural Mechanics	6	Every Semester	7	Written exam, assignment, presentations	Graded	Lauxmann
<p>Note: Numerical Structural Mechanics will only be offered in English if each course is demanded by minimum 3 international students</p>								
Mechatronics Study Programme								
625041	Master	MEM Renewable Energies	2	Every Semester	3	Exam, Presentation, seminar paper	Graded	Notholt
625091	Master	MEM Distributed Control in Power Grids	2	Every Semester	3	Project	Graded	Coll-Mayor/Notholt
<p>Note: Distributed Control in Power Grids is offered with reservation. Open for exchange students only after consultation with the International Coordinator (Nadja Lobensteiner).</p>								
625051	Master	MEM Human Robot Collaboration Introduction	2	Every Semester	3	Report, final presentation, documentation	Graded	Rätsch
625061	Master	MEM Human Robot Collaboration– Applications	2	Every Semester	3	Report, final presentation, documentation	Graded	Rätsch
625071	Master	MEM Machine Vision and Artificial Intelligence	5	Every Semester	6	Report, final presentation, documentation, oral exam	Graded	Rätsch
<p>Note: MEM Machine Vision and Artificial Intelligence is offered only for students with advanced knowledge in this field of study.</p>								
625191	Master	MEM Control Systems Laboratory	2	Every Semester	2	Lab report	Ungraded	Zenner
625241	Master	MEM EMC and Signal Integrity Lecture	2	Every Semester	3	Written exam	Graded	Pouhè

Note: EMC and Signal Integrity will be only offered in English if demanded by minimum 5 international students

Code	Level (Bachelor/Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
625111	Master	MEM EMC and Signal Integrity Laboratory	2	Every Semester	3	Lab report	Ungraded	Pouhè

Note: EMC and Signal Integrity Laboratory cannot be chosen separately from EMC and Signal Integrity Lecture.

Distributed Energy Systems and Energy Efficiency Study Programme

625081	Master	DEE Distributed Economy in the Energy Sector	2	Every Semester	3	Written exam, project, presentation	Graded	Coll-Mayor
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Project Opportunities for Undergraduate, Postgraduate and PhD Students

Please note: Project positions will be offered on demand for a limited number of students if a professor agrees to act as project supervisor. Click [here](#) for detailed information

Code	Level (Bachelor/Master)	Course Title	Contact hours / week	Offered Winter/ Summer	ECTS Credits	Type of assessment	Graded/ ungraded	Lecturer
625121	Bachelor/ Master	Semester Engineering Project		Every Semester	6	Documentation of work, report	Graded	Various
625201	Bachelor/ Master	Semester Engineering Project		Every Semester	8	Documentation of work, report	Graded	Various
625131	Bachelor/ Master	Semester Engineering Project		Every Semester	10	Documentation of work, report	Graded	Various
625141	Bachelor/ Master	Semester Engineering Project		Every Semester	15	Documentation of work, report	Graded	Various
625151	Bachelor/ Master	Semester Engineering Project		Every Semester	30	Documentation of work, report	Graded	Various