

Courses for Non-Degree Exchange Students
taught in English in the School of Engineering
Offered in Fall Semester (September-February)

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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	Brüsch
620061	Bachelor	IPE Project Budgeting and Controlling	4	Every Semester	5	Written exam 2h	Graded	Brüsch
620551	Bachelor	IPE Finance	2	Every Semester	3	Oral exam 15 min	Graded	Brüsch
620201	Bachelor	IPE Supply Chain Management	2	Every Semester	3	Project Work	Graded	Brüsch
620081	Bachelor	IPE Plant Engineering	4	Every Semester	6	Written exam	Graded	Samland

62009 1	Bachelor	IPE Project Management Certification	2	Every Semester	2	Written exam 1h	Graded	Lehman n
620581	Bachelor	IPE Project Lab	1	Every Semester	2	Testat	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	Casellat o
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	Churchil l
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	Brüsch
	Bachelor	IPE Marketing Project	4	Every Semester	5	Project Work	Graded	Reich

Note: IPE Marketing Project is designed as an intensive course which is held after the exams period.

	Bachelor	IPE Management Simulation	2	Every Semester	3	Online Test	Graded	Reich
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Note: IPE Management Simulation is designed as an intensive course which is held after the exams period.

Mechanical Engineering Study Programme

62021 1	Bachelor	MBB Finite Element Method	2	Every Semester	3	Group project, presentation	Graded	Lauxma nn
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Note: Finite Element Method will only be offered in English if the course is demanded by minimum 3 international students.

	Bachelor	Data Science	2	Every Semester	3	Continuous Assessment	Graded	Priwitz r
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Note: Data Science will only be offered in English if the course is demanded by minimum 3 international students.

620541	Bachelor	Applied Acoustics	2	Winter Semester	3	Written exam, Group project, Presentation	Graded	Pitsch
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).

Mechatronics Study Programme

620231	Bachelor	MEB Electrical Drives Lecture & Lab	3	Every Semester	4	Written exam	Graded	Schuller us
620241	Bachelor	MEB Interactive Robots in Motion	2	Every Semester	3	Presentation, documentation	Graded	Rätsch
620361	Bachelor	MEB Power Electronics Laboratory	2	Every Semester	3	Lab report	Ungraded	Ulrich
620261	Bachelor	MEB Semiconductor Devices	6	Every Semester	5	Oral exam 20min	Graded	Sönmez
620361	Bachelor	MEB PLC Control Systems	2	Every Semester	3	Written exam	Graded	Zenner
620371	Bachelor	MEB PLC Control Systems Laboratory	2	Every Semester	2	Lab report	Ungraded	Zenner
620381	Bachelor	MEB Communication Systems	2	Every Semester	3	Written exam	Graded	Zenner
620391	Bachelor	MEB Communication Systems Laboratory	1	Every Semester	1	Lab report	Ungraded	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
62501 1	Master	MBM Numerical Analysis	2	Every Semester	3	problem sheets + Written exam	Graded	Priwitzer
62502 1	Master	MBM Partial Differential Equations	2	Every Semester	3	Written exam	Graded	Honegger
62523 1	Master	MBM Basic Principles of Energy Conversion	2	Winter Semester	3	Written exam, project, presentation	Graded	Truckenmüller
62503 1	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								
62504 1	Master	MEM Renewable Energies	2	Every Semester	3	Exam, Presentation, seminar paper	Graded	Notholt
62505 1	Master	MEM Human Robot Collaboration Introduction	2	Every Semester	3	Report, final presentation, documentation	Graded	Rätsch
62506 1	Master	MEM Human Robot Collaboration– Applications	2	Every Semester	3	Report, final presentation, documentation	Graded	Rätsch
62507 1	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>								
62519 1	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
<p>Note: EMC and Signal Integrity will be only offered in English if demanded by minimum 5 international students</p>								

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.

Interdisciplinary Courses

Code	Level (Bachelor/Master)	Course Title	Contact hours / week	Offered Winter/Summer	ECTS Credits	Type of assessment	Graded/ungraded	Lecturer
620591	Bachelor/Master	Career Management	2	On demand/ Every semester	2	Presentation	Ungraded	Nebeling

Note: Career Management takes place if demanded by a minimum of 10 students. The course is designed as an intensive course which is held after the exams period.

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