

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

Contents

Contents.....	1
Undergraduate Courses (Bachelor Level).....	1
International Project Engineering Study Programme.....	1
Mechanical Engineering Study Programme.....	2
Mechatronics Study Programme.....	2
Postgraduate Courses (Master Level).....	4
Mechanical Engineering Study Programme.....	4
Mechatronics Study Programme.....	4
Interdisciplinary Courses.....	5
Project Opportunities for Undergraduate, Postgraduate and PhD Students.....	5

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
	Bachelor	Project Management	4	Every Semester	5	Written exam	Graded	Brune
620561	Bachelor	Accounting	2	Every Semester	3	Oral exam 15 min	Graded	Brüsch
	Bachelor	Project Budgeting and Controlling	5	Every Semester	7	Written exam 2h & Testat	Graded	Brüsch
620551	Bachelor	Finance and Investment	2	Every Semester	3	Oral exam 15 min	Graded	Brüsch
620201	Bachelor	Supply Chain Management	2	Every Semester	3	Project Work	Graded	Brüsch
620081	Bachelor	Plant Engineering	3	Every Semester	5	Written exam	Graded	Samland
620091	Bachelor	Project Management Certification	2	Every Semester	3	Written exam 1h	Graded	Lehmann

62012 1	Bachelor	Intercultural Communication	4	Every Semester	5	Written seminar paper, group presentation	Graded	Reich
62013 1	Bachelor	Scientific Approaches and Methods	2	Every Semester	3	Continuous Assessment (CA)	Graded	Casellato
62014 1	Bachelor	Smart Systems	5	Every Semester	7	Project Work (PA)	Graded	Notholt, Wachter
	Bachelor	Advanced Project Management	4		5	Exam	Graded	Schulze, Sattler
	Bachelor	Strategic Leadership	6	Every Semester	7	Written exam, Project Assignment	Graded	Reich, Churchill
62019 1	Bachelor	Information Management	2	Every Semester	3	Oral exam 15 min	Graded	Brüsch
	Bachelor	Marketing Project	4	Every Semester	5	Project Work	Graded	Reich
	Bachelor	Management Simulation	2	Every Semester	3	Online Test	Graded	Reich

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

Mechanical Engineering Study Programme

620221	Bachelor	MBB Design Methodology	2	Every Semester	3	Assignments	Graded	Ritter
620541	Bachelor	Applied Acoustics	2	Winter Semester	3	Written exam, Group project, Presentation	Graded	Pitsch
620211	Bachelor	MBB Finite Element Method	3	Every Semester	3	Group project, presentation	Graded	Peter

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	Priwitzer
--	----------	--------------	---	----------------	---	-----------------------	--------	-----------

Note: Data Science will only be offered in English if the course is demanded by minimum 3 international students.

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

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
62036 1	Bachelor	MEB PLC Control Systems	2	Every Semester	3	Written exam	Graded	Zenner
62037 1	Bachelor	MEB PLC Control Systems Laboratory	2	Every Semester	2	Lab report	Ungraded	Zenner
62038 1	Bachelor	MEB Communication Systems	2	Every Semester	3	Written exam	Graded	Zenner
62039 1	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
	Master	MBM Applied Mathematics	4	Every Semester	6	problem sheets + Written exam	Graded	Priwitzer, Peter
62503 1	Master	Numerical Structural Mechanics	6	Every Semester	7	Written exam, assignment, presentations	Graded	Lauxman
Note: Numerical Structural Mechanics will only be offered in English if the course is demanded by minimum 3 international students.								
Mechatronics Study Programme								
62504 1	Master	MEM Renewable Energies	2	Every Semester	3	Exam, Presentation, seminar paper	Graded	Notholt
	Master	MEM Software-System Architecture	2	Every Semester	3	Oral exam	Graded	Weiland
Note: Software-System Architecture will only be offered in English if the course is demanded by minimum 3 international students.								
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
Note: MEM Machine Vision and Artificial Intelligence is offered only for students with advanced knowledge in this field of study.								
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
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

62511 1	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

62508 1	Master	DEE Distributed Economy in the Energy Sector	2	Every Semester	3	Written exam, project, presentation	Graded	Coll-Mayor
------------	--------	--	---	----------------	---	-------------------------------------	--------	------------

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.

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	10/ 180	Every Semester	6	Documentation of work, report	Graded	Various
625201	Bachelor/Master	Semester Engineering Project	12/ 240	Every Semester	8	Documentation of work, report	Graded	Various
625131	Bachelor/Master	Semester Engineering Project	15/ 300	Every Semester	10	Documentation of work, report	Graded	Various
625141	Bachelor/Master	Semester Engineering Project	20/ 450	Every Semester	15	Documentation of work, report	Graded	Various
625151	Bachelor/Master	Semester Engineering Project	40/ 900	Every Semester	30	Documentation of work, report	Graded	Various