

List of the Courses taught in English at the Faculty of Mechanical and Process Engineering of Hochschule Düsseldorf - University of Applied Sciences (2 pages)

Remarks:

- 1) Although the lectures are usually offered only in one of the two semesters of the year the exams for the compulsory courses (PF) can be taken at the end of both semesters. Thus, it is possible to take the exams of those courses, even they were not offered in the respective semester.
- 2) In the study plans and course descriptions, some courses are listed only by the German title, although they are also taught in English. For such courses, the English title provided below is just a translation, but not the "official" title. These titles are written in "brackets" for indicating such courses. For them, please use the German title and/or the code, for finding them in the study plans and course descriptions.
- 3) The elective courses (WF) are not necessarily opened in the semester indicated in the table. The list of the optional courses will be announced shortly before the respective semester.
- 4) Note that the "Master Courses" are only available to graduate students, who already hold a Bachelor's degree and are enrolled to a Master's program at their home university.

Bachelor Courses							
Code	Titel of the Course	ECTS	Semester	Course Type	Study Program	Language	Lecturer
60031	Energietechnische Projektstudien (Selected case studies of energy technology)	5	WS/SS	WF	EUT, UVT, WIM	E	Adam / Wohlfahrt
21011	Erneuerbare Energien und energieeffiziente Technologie (Renewable Energies and Energy Efficiency)	5	SS	PF,WF	EUT,MPE,MPT,UVT,WIM	E	Adam / Wohlfahrt
11021	Heat Transfer (will not be offered after WS 2024-2025)	5	WS	PF	EUT, UVT	E	Benim
21021	Technical Combustion (will not be offered after SS 2025)	5	SS	PF	EUT	E	Benim
60981	Business and Technology in Space	5	SS	PF	EUT,MPE,MPT,UVT,WIM	E	Bosman
60381	Verfahrenstechnik der Zementherstellung 1 (Process Engineering of Cement Production)	5	SS	WF	EUT,MPE,MPT,UVT	E	Fleiger
60391	Verfahrenstechnik der Zementherstellung 2 (Process Engineering of Cement Production)	5	WS	WF	EUT,MPE,MPT,UVT	E	Fleiger
60751	Applied Artificial Intelligence in Instrumentation and Control	5	WS	WF	EUT,MPE,MPT,UVT,WIM	E	Grote-Ramm
60881	Advanced Machine Learning	5	SS	WF	EUT,MPE,MPT,UVT,WIM	D/E(X)	Stuhlsatz
60781	Konvexe Optimierung	5	SS	WF	EUT,MPE,MPT,UVT,WIM	D/E(X)	Stuhlsatz
60681	Energiewirtschaftliche Projektstudien (Selected Topics in Energy Economics)	5	WS	WF	EUT, UVT, WIM	E	Schaube
60341	Sondergebiete der Physik (Advanced Special Topics of Physics)	5	WS/SS	WF	EUT,MPE,MPT,UVT,WIM	D/E(X)	Kiel
60431	Innovative KFZ-Antriebe	5	WS/SS	WF	EUT,MPE,MPT,UVT,WIM	D/E(X)	Kiel
	Business English Essentials	5	SS	WF	EUT,MPE,MPT,UVT,WIM	E	Zupfer
	Intercultural Competence Essentials	5	SS	WF	EUT,MPE,MPT,UVT,WIM	E	Zupfer
10411	English	5	WS	PF	EUT,MPE,MPT,UVT,WIM	E	Zupfer

Master Courses (available to Master Students, only)

Code	Titel of the Course	ECTS	Semester	Course Type	Study Program	Language	Lecturer
12001	Simulation of Mechanical System (if this course is chosen, the corresponding Practical Training should be chosen, too)	6	WS	PF	ME	E	Batos
12002	Simulation of Mechanical System Practical Training						Batos
11301	Computational Fluid Dynamics (CFD) (if chosen, the Practical Training should be chosen) (not offered after SS 2025)	6	SS	PF	SET, ME	E	Benim
11302	Computational Fluid Dynamics (CFD) Practical Training (will not be offered after SS 2025)						Benim
	Heat and Mass Transfer in Two Phase Flows (will not be offered after SS 2025)	6	SS	PF	SET	E	Benim
40341	Fatigue Strength of Components	6	WS	WF		D/E(X)	Bongartz
40311	Behavioral Economics	6	WS	WF	IWI	E	Deckert
40151	Automation with Microcontrollers	6	WS	WF	SET, IWI, ME	D/E(X)	Grote-Ramm
	Plain Bearing Technology- Design, Dimensioning and Testing	6	WS	WF	ME	E	Heckmann / Gabener
40091	Polymer Technology	6	WS	WF	SET, IWI, ME	E	Heinemann
40221	Heterogeneous Catalysis	6	WS	WF/SS	SET, IWI	D/E(X)	Kaluza
40041	Control Theory	6	WS	WF		E	Kiel
17301	Life Cycle and Service Management	6	WS	PF	IWI		Niemann
40281	Digital Business Transformation in Industry 4.0	6	SS	WF	SET, IWI, ME	D/E(X)	Niemann
40201	Industrial Service Marketing & Business Development	6	SS	WF	SET, IWI, ME	E	Niemann
17201	International Technical Sales Management	6	SS	PF	IWI	E	Niemann
40321	Industrial Robots in Industry 4.0 Environment	6	WS	WF	SET, IWI, ME	E	Niemann
40211	Advanced Computational Methods	6	WS/SS	WF	SET, IWI, ME	E	Ruess
12101	Finite Element Method (FEM) (if this course is chosen, the corresponding Practical Training should be chosen, too)	6	WS	PF	SET, ME	E	Ruess
12102	Finite Element Method (FEM) Practical Training						Ruess
11401	Engineering Mathematics (if this course is chosen, the corresponding Practical Training should be chosen, too)	6	SS	PF	SET, ME	E	Ruess
11402	Engineering Mathematics Practical Training						Ruess
40131	Advanced Business English	6	WS	WF	SET, IWI, ME	E	Zupfer
40291	Advanced English for Engineers	6	SS	WF	SET, IWI, ME	E	Zupfer
30031	Engineering Conferences	6	WS/SS	PF	SET, IWI, ME	E	Stuhlsatz / Neef / Biedermann
30011	Project R&D	6	WS/SS	PF	SET, IWI, ME	E	Various

Explanation of Symbols:

WS: Winter semester

SS: Sommer semester

PF Compulsary course (Pflichtfach)

PF Elective course (Wahlfach)

E: English

D: German (Deutsch)

E(X): Although the course is taught in German, the exam can be taken English. For this, please contact the lecturer at the beginning of the semester.