

## 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	Energetische Projektstudien (Selected case studies of energy technology)	5	WS/SS	WF	EUT, UVT, WIM	E	Adam / Wohlfahrtstätter
21011	Erneuerbare Energien und energieeffiziente Technologie (Renewable Energies and Energy Efficiency)	5	SS	PF,WF	EUT,MPE,MPT,UVT,WIM	E	Adam / Wohlfahrtstätter
21021	Technical Combustion (will not be offered after SS 2025)	5	SS	PF	EUT	E	Benim
60391	Verfahrenstechnik der Zementherstellung 2 (Process Engineering of Cement Production) ! Basic knowledge required!	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
30411	Unternehmensgründung /Entrepreneurship	6	SS	PF	WIM	D/E	Niemann
	Social Impact Entrepreneurship Block Event (mid April till mid June 2025)	5	SS	WF	EUT,MPE,MPT,UVT,WIM	E	Kretschmar (Niemann)
60681	Energiewirtschaftliche Pojektstudien (Selected Topics in Energy Economics)	5	WS	WF	EUT, UVT, WIM	E	Schaube
	Atmospheric Chemistry and Physics	5	WS	WF	EUT,MPE,MPT,UVT,WIM	E	Nehr
60431	Innovative KFZ-Antriebe	5	WS	WF	EUT,MPE,MPT,UVT,WIM	D/E	Kiel
60131	Advanced reading and conversation class	5	WS	WF	EUT,MPE,MPT,UVT,WIM	E	Zupfer
60451	English for Engineers	5	WS/SS	WF	EUT,MPE,MPT,UVT,WIM	E	Zupfer
61041	Business English Essentials	5	SS	WF	EUT,MPE,MPT,UVT,WIM	E	Zupfer
61081	Intercultural Competence Essentials	5	SS	WF	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	UWI, ME	E	Benim
11302	Computational Fluid Dynamics (CFD) Practical Training (will not be offered after SS 2025)						Benim
40341	Hydrogene Economy (Block Course early March)	6	SS	WF	UWI, IWI, ME	E	Schaube
21001	Heat and Mass Transfer in Two Phase Flows (will not be offered after SS 2025)	6	SS	PF	UWI	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	UWI, IWI, ME	D/E(X)	Grote-Ramm
40381	Plain Bearing Technology- Design, Dimensioning and Testing	6	WS	WF	ME	E	Heckmann / Gabener
40221	Heterogeneous Catalysis	6	WS	WF/SS	UWI, 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	UWI, IWI, ME	E	Pudelski (Niemann)
60881	Advanced Machine Learning	6	SS	WF	UWI, IWI, ME	E	Stuhlsatz

40201	Industrial Service Marketing & Business Development (will not be offered after SS2025)	6	SS	WF	UWI, IWI, ME	E	Taurel (Niemann)
17201	International Technical Sales Management	6	SS	PF	IWI	E	Niemann
40321	Industrial Robots in Industry 4.0 Environment	6	WS	WF	UWI, IWI, ME	E	Pisla (Niemann)
40081	Intercultural Competence	6	WS	WF	UWI, IWI, ME	E	Zupfer
40131	Advanced Business English	6	WS	WF	UWI, IWI, ME	E	Zupfer
40291	Advanced English for Engineers	6	SS	WF	UWI, IWI, ME	E	Zupfer
30031	Engineering Conferences	6	WS/SS	PF	UWI, IWI, ME	E	Neef/ Spiegel
30011	Project R&D	6	WS/SS	PF	UWI, 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.