

**DUESSELDORF UNIVERSITY OF APPLIED SCIENCES (FH D) / YILDIZ TEKNIK UNIVERSITY (YTU) ISTANBUL**

**Explanations:**

- Compulsory courses at FHD and YTU are indicated by white color
- Elective courses at FHD and YTU are indicated by yellow color
- The structure of the table is:

**For each course at FHD, the equivalent course(s) at YTU is(are) given just next to the entry of this course.**

**There are courses with no equivalence, which may, however, be taken as electives. They are indicated at the end of the table below.**

- **Although the lectures are usually offered only in one of the two semesters of the year (winter or summer) the exams can be taken at the end of both semesters. Thus, it is possible to take the exams of the courses, the lectures of which were not offered in the respective semester.**

(\*) This course is taught in German, but the written exam can be taken in English. Please contact the lecturer at the beginning of the semester, if you wish to do so.

(\*\*) The first of the lecture „Energiewirtschaft“ is held in German, the second „Kraftwerkstechnik“ in English. The numbers in brackets show the partial number of hours and credits for the second part (Power Plant Technology).

Please contact the lecturer at the beginning of the semester, if you want to take the lecture and exam in English.  
For questions, you may contact the International Office (Mr. J. Bukowski, [joerg.bukowski@fh-duesseldorf.de](mailto:joerg.bukowski@fh-duesseldorf.de)), or the Departmental Coordinator (Prof. Dr. A. C. Benim, [alicemal.benim@fh-duesseldorf.de](mailto:alicemal.benim@fh-duesseldorf.de))

***Mechanical engineering (ME):***

CODE	TITLE	ECTS	Semester	Language	CODE	TITLE	ECTS	Semester	Language
101	Mathematik I	5	Fall	German	MAT1071	Mathematics I	6	Fall	Eng./Tur.
102	Mathematik II	5	Spring	German	MAT1072	Mathematics II	6	Spring	Eng./Tur.
105	Informatik I	2	Fall	German	ENF1170	Introductory Computer Sciences	4	Fall/Spring	Eng./Tur.
201	Physik	3	Fall	German	FIZ1001	Physics I	5	Fall	Eng./Tur.
203	Werkstoffkunde	5	Fall	German	MAK2021	Materials Science I	5	Fall	Turkish
205	Chemie I	3	Spring	German	KIM1120	General Chemistry	4	Fall/Spring	Turkish
207	Thermodynamik I (Thermodynamics I) (*)	4	Fall	Eng./Ger.	MAK2051	Thermodynamics I	5	Fall	Eng./Tur.
208	Wärmeübertragung I	2	Spring	German	MAK3981	Heat Transfer I	5	Fall	Eng./Tur.
302	Grundlagen der Technischen Mechanik	4	Fall	German	MAK1012	Statics	8	Spring	Eng./Tur.
304	Grundlagen der Konstruktion	3	Spring	German	MAK3991	Machine Elements I	5	Fall	Eng./Tur.
401	Technisches Englisch	2	Fall	English	MDB1031	Advanced English I	3	Fall	English
410	Fremdsprachen II (Englisch für Fortgeschrittene) (Advanced English II)	2	Spring	English	MDB1032	Advanced English II	3	Spring	English
2101	Werkstofftechnik	2	Fall	German	MAK3661	Material Selection in Mechanical Engineering	3	Fall	Turkish
2101	Thermodynamik II (Thermodynamics II) (*)	2	Fall	Eng./Ger.	MAK2542	Thermodynamics II	5	Spring	Eng./Tur.
2102	Wärmeübertragung II (Heat Transfer II)	4	Fall	Eng./Ger.	MAK3982	Heat Transfer II	4	Spring	Turkish
2103/2153	Strömungstechnik I (Fluid Mechanics I) (*)	2	Fall	Eng./Ger.	MAK2992	Fluid Mechanics	7	Spring	Eng./Tur.
2104/2151	Regelungstechnik (Control Theory)	2	Fall	Eng./Ger.	MAK4031	Automatic Control I	4	Fall	Eng./Tur.
2107	Festigkeitslehre	4	Fall	German	MAK2041	Strength of Materials I	5	Fall	Eng./Tur.
2108	Dynamik (Dynamics)	4	Spring	Eng./Ger.	MAK2031	Dynamics	5	Fall	Eng./Tur.
2154	Messtechnik	3	Spring	German	MAK2011	Measurement Techniques & Evaluation	3	Fall	Turkish
2155	Strömungstechnik II (Fluid Mechanics II) (*)	2	Spring	Eng./Ger.	MAK3052	Turbo Machines	5	Spring	Turkish
2201	Maschinenelemente	3	Spring	German	MAK3992	Machine Elements II	5	Spring	Eng./Tur.

<b>2202</b>	Thermische Grundoperationen (Basic Thermal Operations) (*)	3	Spring	Eng./Ger.	<b>MAK4191</b>	Thermal Process Techniques I	4	Fall	Turkish
<b>2204</b>	Chemische Verfahrenstechnik	3	Spring	German	<b>KMM2022</b>	Chemical Engineering Thermodynamics	6	Spring	English
<b>2251</b>	Spanende Fertigung	5	Spring	German	<b>MAK3702</b>	Machining I + II	6	Spring	Turkish
<b>2252</b>	Energiewirtschaft und Kraftwerkstechnik (Energy economy and Power Plant Technology) (**)	3(2)	Spring	Eng./Ger.	<b>MAK4942/</b>	Power Plants/	3/	Spring/	Turkish/
					<b>MAK3141</b>	Energy Economy I	3	Fall	Turkish
<b>2251</b>	Technische Verbrennung (Technical Combustion)	5	Spring	Ger./Eng	<b>MAK3031</b>	Internal Combustion Engines		Fall	Turkish
<b>2253</b>	Spanlose Fertigung	5	Spring	German	<b>MAK2982</b>	Manufacturing Processes I + II	6	Spring	Turkish
<b>2253/3010</b>	Erneuerbare Energien und energieeffiziente Technologien	4/5	Spring/Fall	German	<b>MAK3812</b>	Renewable Energy Systems	3	Spring	Turkish
					<b>MAK4801</b>	Renewable Energy Usage in the HVAC Systems	3	Fall	Turkish
<b>2301</b>	Lärmschutz	1	Spring	German	<b>MAK4082</b>	Industrial Acoustics and Noise	3	Spring	Turkish
<b>2303</b>	Wasserreinigung und Bodensanierung	3	Spring	German	<b>MAK4922</b>	Cleaning and Purification Technologies	3	Spring	Eng./Tur.
<b>2304</b>	Luftreinhaltung (Air Quality Control)	4	Spring	Eng./Ger.	<b>MAK3691</b>	Air Quality and Sanitary Installations	3	Fall	Turkish
<b>2352/2402</b>	Projektmanagement und Problemlösungsmethoden	4	Fall	German	<b>MAK2932</b>	Project Management in Engineering	3	Fall/Spring	Turkish
<b>3013</b>	Finite Elemente Methode I	5	Fall	Eng./Ger.	<b>MAK1022</b>	Finite Element Methods in Mechanical Engineering	3	Spring	Turkish
<b>3017</b>	Industrieroboter (Servoantriebe) (Robot Contructions)	5	Fall	Eng./Ger.	<b>MAK4092</b>	Introduction to Robotics	3	Fall	Turkish
<b>3024</b>	Maschinendynamik	5	Fall	German	<b>MAK3902</b>	Machine Dynamics	4	Spring	Turkish
<b>3032</b>	Schweißtechnik I	5	Fall	German	<b>MAK3392</b>	Welding Technique I	3	Spring	Turkish
<b>3033</b>	Schweißtechnik II	5	Fall	German	<b>MAK4301</b>	Welding Technique II	3	Fall	Turkish
<b>3044</b>	Umwelttechnische Projektstudien (Selected Case Studies of Environmental Engineering)	5	Fall	Eng./Ger.	<b>MAK4972</b>	Vehicle and Environment	3	Spring	Turkish
<b>3050</b>	Gießereitechnik I	5	Fall	German	<b>MAK3492</b>	Casting Technique I	3	Spring	Turkish
<b>3052</b>	Gießereitechnik II	5	Fall	German	<b>MAK4281</b>	Casting Technique II	4	Fall	Turkish
<b>3068</b>	Automatisierungstechnik	5	Fall	German	<b>MAK3292</b>	Automation in Manufacturing	4	Spring	Turkish
<b>4200/4500</b>	Abschlussarbeit/ Kolloquim	12/2	Fall/Spring	German	<b>MAK4000</b>	Graduation Thesis	8	Spring	Eng./Tur.

## Courses at FHD with no equivalent

CODE	TITLE	ECTS	SEMESTER	LANGUAGE
103	Mathematische Rechnerübungen (P)	3	Spring	German
106	Informatik I Praktikum	1	Fall	German
107	Informatik II	2	Spring	German
108	Informatik II Praktikum	1	Spring	German
202	Physik Praktikum	2	Spring	German
204	Werkstoffkunde Praktikum	2	Spring	German
301	Projektarbeit	4	Fall	German
303	CAD (P)	2	Fall	German
305	Elektrotechnik und Antriebstechnik I	2	Spring	German
306	Elektrotechnik und Antriebstechnik Praktikum	2	Spring	German
420	Fremdsprachen II (Französisch)	2	Spring	French
430	Fremdsprachen II (Spanisch)	2	Spring	Spanish
2102	Werkstofftechnik Praktikum	2	Fall	German
2104	Strömungstechnik I und Messdatenverarbeitung Praktikum	2	Fall	German
2123	Thermodynamik und Wärmeübertragung Praktikum	3	Fall	German
2151	Chemie II	4	Fall	German
2152	Regelungstechnik Praktikum	1	Fall	German
2153	Elektrotechnik und Antriebstechnik II	4	Fall	German
2155	Messtechnik Praktikum	1	Spring	German
2157	Handhabungstechnik	3	Spring	German
2172	Chemie II Praktikum	3	Fall	German
2176	Strömungstechnik II Praktikum	3	Spring	German
2201	Mechanische Grundoperationen (Basic Mechanical Operations) (*)	3	Spring	Eng./Ger.
2203	Konstruktion von Maschinen	2	Spring	German
2205	Design/Rapid Prototyping	2	Fall	German
2206	Design / Rapid Prototyping Praktikum	1	Fall	German

<b>2207</b>	Produktdatenmodelle	2	Spring	German
<b>2212</b>	Maschinenelemente Praktikum	3	Spring	German
<b>2214</b>	Konstruktion von Maschinen Praktikum	3	Spring	German
<b>2223</b>	Mechanische und Thermische Grundoperationen Praktikum	4	Spring	German
<b>2225</b>	Chemische Verfahrenstechnik Praktikum	1	Spring	German
<b>2252</b>	Spanende Fertigung Praktikum	2	Spring	German
<b>2254</b>	Spanlose Fertigung Praktikum	2	Spring	German
<b>2257</b>	Fertigungsmesstechnik	4	Spring	German
<b>2274</b>	Energietechnisches Praktikum	3	Spring	German
<b>2301</b>	Produktionsplanung und -steuerung	2	Spring	German
<b>2302</b>	Produktionsplanung und -steuerung Praktikum	3	Spring	German
<b>2303</b>	Fabrikplanung und Qualitätsmanagement	5	Spring	German
<b>2304</b>	Fabrikplanung und Qualitätsmanagement Praktikum	2	Spring	German
<b>2322</b>	Lärmschutz Praktikum	2	Spring	German
<b>2325</b>	Luftreinhaltung Praktikum	2	Spring	German
<b>2351</b>	Anlagenplanung	3	Spring	German
<b>2351/2401</b>	Industriebetriebslehre und Kostenrechnung	4	Fall	German
<b>2353</b>	Energetische und umwelttechnische Prozessoptimierung	3	Spring	German
<b>2372</b>	Anlagenplanung Praktikum	1	Spring	German
<b>2900/2901</b>	Praxissemester (incl. Blockseminar)	30	Fall	German
<b>4110</b>	Projektarbeit	7	Spring/Fall	Eng./Ger.
<b>3007</b>	CAD Vertiefung und Anwendung	5	Fall	German
<b>3009</b>	Grundlagen speicherprogrammierbarer Steuerungen	5	Fall	German
<b>3011</b>	Energietechnische Projektstudien	5	Fall	German
<b>3012</b>	Energie und Stadtentwicklung	5	Fall	German
<b>3014</b>	Finite Elemente Methode II	5	Fall	German
<b>3015</b>	Formgedächtnistechnik (Shape Memory Alloys)	5	Fall	German
<b>3018</b>	Konstruieren mit Kunststoffen	5	Fall	German
<b>3028</b>	Produktionsplanung und -steuerung Projektstudium	5	Fall	German
<b>3029</b>	Prototyping	5	Fall	German

3030	Produktentwicklungsstudien	5	Fall	German
3035	Sondergebiete der Physik (Advanced Special topics of Physics)	5	Fall	German
3042	Technische Logistik	5	Fall	German
3043	Theoretische Methoden in Maschinenbau und Verfahrenstechnik	5	Fall	German
3045	Unternehmensgründung inkl. Businessplan	5	Fall	German
3046	Unternehmensplanspiel	5	Fall	German
3047	Visualisierungstechniken	5	Fall	German
3051	Recht für Ingenieure I	5	Fall	German
3053	Recht für Ingenieure II	5	Fall	German
3054	Mechanik computerorientiert (Computer Oriented Mechanics) (*)	5	Fall	German
3055	Energieberatung und Gebäudeenergieausweise	5	Fall	German
3063	Höhere Technische Mechanik	5	Fall	German
3065	Sondergebiete der Biologischen Verfahrenstechnik	5	Fall	German
3066	Sondergebiete der Chemischen Verfahrenstechnik	5	Fall	German
3067	Verfahrenstechnische Fließbilder	5	Fall	German
3080	Technisches Französisch	5	Fall	German
3081	Interkulturelle Kompetenzen	5	Spring	German
3082	Biofluid Dynamics	5	Fall	German
3085	Photovoltaik (Photovoltaics)	5	Fall	German
3086	Klimawandel und Anlagensicherheit	5	Fall	German
3087	Industrielle Filtrationstechnik	5	Fall	German
3088	Sondergebiete der Energietechnik (Selected Topics in Energy Technology)	5	Fall	German
3089	Kraftwerkstechnische Projektstudien (Case Study Power Plant Technology)	5	Fall	German
3090	Engineering Ethics	5	Spring	German
3093	Product LifeCycle Management PLM Projektstudium	5	Fall	German
3094	Abwasserbehandlung II	5	Fall	German

## Courses at YTU with no equivalent

CODE	TITLE	ECTS	SEMESTER	LANGUAGE
ATA1031	Principles of Atatürk and History of Modern Turkey I	2	Spring	Turkish
ATA1032	Principles of Atatürk and History of Modern Turkey II	2	Spring	Turkish
ELM3161	Fundamentals of Electric and Electronics	4	Fall	Turkish
FIZ1002	Physics II	5	Spring	Eng./Tur.
MAK1041	Introduction to Mechanical Engineering	4	Fall	Turkish
MAK3001	Workshop Training	2	Fall	Eng./Tur.
MAK3002	Occup. Field Training I	2	Spring	Eng./Tur.
MAK3042	Machine Tools	3	Spring	Turkish
MAK4002	Occup. Field Training II	2	Spring	Eng./Tur.
MAK4981	General Laboratory	3	Fall	Turkish
MAK4992	Special Laboratory	6	Spring	Turkish
MAT2411	Differential Equations	5	Fall	Eng./Tur.
TDB1031	Turkish Language I	2	Fall	Turkish
TDB1032	Turkish Language II	2	Spring	Turkish
MAK 1031	Computer Aided Technical Drawing I	8	Fall/Spring	Turkish
BLM2732	System Analysis and Design	3	Spring	Turkish
MAK2102	Factory Org. and Management	3	Spring	Turkish
MAK4292	Plastic Processing Machines and Plants	3	Fall	Turkish
MAK3682	Process Techniques	3	Spring	Turkish
MAK4991	Machine Design II	5	Fall	Eng./Tur.
ELM2341	Electric Occupational Safety and Regulations	3	Fall	Turkish
GMI4521	Basic Maritime Knowledge	3	Fall	Eng./Tur.
MAK1032	Statistical Methods in Engineering	3	Spring	Turkish
MAK3062	Computer Aided Design	4	Spring	Turkish
MAK2552	Computer Aided Technical Drawing II	5	Fall/Spring	Turkish

<b>MAK2942</b>	Mechanical Vibrations	3	Fall	Turkish
<b>MAK2952</b>	Manufacturing Processes II	3	Fall	Turkish
<b>MAK2972</b>	Strength of Materials II	5	Spring	Eng./Tur.
<b>MAK3051</b>	Computer Aided Drawing	3	Fall	Turkish
<b>MAK3061</b>	Descriptive Geometry I	3	Fall	Turkish
<b>MAK3071</b>	System Dynamics and Simulation	3	Fall	Eng./Tur.
<b>MAK3081</b>	Analytical Mechanics	3	Fall	Eg./Tur.
<b>MAK3082</b>	Introduction to Tribology	3	Spring	Turkish
<b>MAK3092</b>	Steel Constructions	4	Spring	Turkish
<b>MAK3101</b>	Vehicle Vibrations	3	Fall	English
<b>MAK3102</b>	Strength of Materials III	3	Spring	Eng./Tur.
<b>MAK3142</b>	Fuels and Combustion	4	Spring	Turkish
<b>MAK3151</b>	Optimization in Energy Systems	3	Spring	Turkish
<b>MAK3152</b>	Engine Dynamics	4	Spring	Turkish
<b>MAK3161</b>	Nuclear Power Plants	3	Fall	Turkish
<b>MAK3162</b>	Internal Combustion Engines I	3	Spring	Turkish
<b>MAK3171</b>	Industrial Hydraulics	3	Fall	Turkish
<b>MAK3181</b>	Sanitary Installations	3	Fall	Turkish
<b>MAK3191</b>	Gas Installations	3	Fall	Turkish
<b>MAK3201</b>	Refrigeration Techniques	3	Fall	Turkish
<b>MAK3202</b>	Hydraulic Machinery	4	Spring	Turkish
<b>MAK3252</b>	Computational Fluid Mechanics	3	Spring	Turkish
<b>MAK3272</b>	Air Conditioning I	3	Fall	Turkish
<b>MAK3282</b>	Die Manufacturing Techniques	4	Spring	Turkish
<b>MAK3302</b>	Computer Aided Design in Manufacturing	3	Spring	Turkish
<b>MAK3442</b>	Farm Machinery I	3	Spring	Turkish
<b>MAK3482</b>	Heat Exchangers	3	Spring	Turkish
<b>MAK3542</b>	Construction Elements	3	Fall	Turkish



<b>MAK3552</b>	Heating and Ventilation	4	Spring	Turkish
<b>MAK3561</b>	Sensors and Actuators in Vehicles	3	Fall	Turkish
<b>MAK3661</b>	Material Selection in mechanical Engineering	3	Fall	Turkish
<b>MAK3681</b>	Insulation in HVAC	3	Fall	Turkish
<b>MAK3671</b>	Principles and Applications of Tribology	3	Fall	Turkish
<b>MAK3772</b>	Descriptive Geometry II	3	Spring	Turkish
<b>MAK3842</b>	Plastic Materials and Forming	3	Spring	Turkish
<b>MAK3882</b>	Energy Economy II	3	Spring	Turkish
<b>MAK3951</b>	Plastic Deformation of Metals I	3	Fall	Turkish
<b>MAK3961</b>	Advanced Thermodynamics	3	Fall	Turkish
<b>MAK4032</b>	Mechanical Design Technics I	3	Spring	Turkish
<b>MAK4041</b>	Transportation Technics I	4	Fall	Turkish
<b>MAK4042</b>	Mechanisms II	3	Spring	Turkish
<b>MAK4051</b>	Introduction to Continuum Mechanics	4	Fall	Eng./Tur.
<b>MAK4052</b>	Automatic Control II	3	Spring	English
<b>MAK4061</b>	Mechanical Design Technics I	3	Fall	Turkish
<b>MAK4062</b>	Industrial Control Applications	3	Spring	Turkish
<b>MAK4071</b>	Mechanisms I	3	Fall	Turkish
<b>MAK4091</b>	Farm Machinery II	3	Fall	Turkish
<b>MAK4093</b>	Railway Systems	3	Fall	Turkish
<b>MAK4101</b>	Engine Construction	4	Fall	Turkish
<b>MAK4102</b>	Wear, Lubrication and Cooling Internal Combustion Engines	3	Spring	Turkish
<b>MAK4103</b>	Industrial Safety and Hygiene	3	Fall	Turkish
<b>MAK4104</b>	Experimental Methods for Mechanical Engineers	3	Spring	Turkish
<b>MAK4106</b>	History of Machine Technology	3	Spring	Turkish
<b>MAK4152</b>	Compressors	3	Spring	Turkish
<b>MAK4172</b>	Energy Plants and Operating	3	Spring	Turkish
<b>MAK4181</b>	Analysis of Energy Generation Systems	3	Fall	Turkish

<b>MAK4182</b>	Engineering System Optimization	3	Spring	Turkish
<b>MAK4192</b>	Energy Management II	3	Spring	Turkish
<b>MAK4201</b>	Mass Transfer	4	Fall	Eng./Tur.
<b>MAK4202</b>	Process Control II	3	Spring	Turkish
<b>MAK4241</b>	Process Control I	3	Fall	Turkish
<b>MAK4242</b>	Thermal Process Techniques II	3	Spring	Turkish
<b>MAK4251</b>	Air Conditioning II	3	Fall	Turkish
<b>MAK4252</b>	Manufacturing Systems	3	Spring	Turkish
<b>MAK4261</b>	Solar Energy and Heat Pump Systems I	3	Fall	Turkish
<b>MAK4262</b>	Quality in Industry	3	Spring	Turkish
<b>MAK4271</b>	Computer Aided Manufacturing	4	Fall	Turkish
<b>MAK4272</b>	Numerical Controlled Machine Tools	3	Spring	Turkish
<b>MAK4282</b>	Composite Materials in Manufacturing	3	Spring	Turkish
<b>MAK4302</b>	HVAC System Equipments	3	Spring	Turkish
<b>MAK4841</b>	Plastic Deformation of Metals II	3	Fall	Turkish
<b>MAK4851</b>	Machining II	3	Fall	Turkish
<b>MAK4882</b>	Test, Adjustment and Commissioning at HVAC Systems	3	Spring	Turkish
<b>MAK4891</b>	Engineering System Modelling and Simulation	3	Fall	Turkish
<b>MAK4892</b>	Building Automation and Energy Management	3	Spring	Turkish
<b>MAK4901</b>	Steam Boilers	3	Fall	Turkish
<b>MAK4902</b>	Solar Energy and Heat Pump Systems II	3	Spring	Turkish
<b>MAK4911</b>	Construction of Turbo Machinery	3	Fall	Turkish
<b>MAK4912</b>	Drying	3	Spring	Eng./Tur.
<b>MAK4921</b>	Internal Combustion Engines II	3	Fall	Turkish
<b>MAK4931</b>	Motor Vehicles I	3	Fall	Turkish
<b>MAK4932</b>	Energy Management I	3	Fall	Turkish
<b>MAK4941</b>	Jigs and Fixtures	3	Fall	Turkish
<b>MAK4951</b>	Mechanical Systems and Components in The Smart Buildings	4	Fall	Turkish

<b>MAK4952</b>	Automotive Control Systems and Modeling	3	Spring	Turkish
<b>MAK4961</b>	Gas Turbines	4	Fall	Turkish
<b>MAK4962</b>	Braking Dynamics and Braking Systems in Road Vehicles	3	Spring	Turkish
<b>MAK4971</b>	Hydraulics and Pneumatics	4	Fall	Turkish
<b>MAK4982</b>	Transportation Technics II	3	Spring	Turkish
<b>MAT1320</b>	Linear Algebra	3	Fall/Spring	Turkish
<b>MAT2312</b>	Numerical Methods	3	Spring	Turkish
<b>ITB2030</b>	Philosophy of Science	3	Fall/Spring	Turkish
<b>ITB2080</b>	Women in Social Transformations	3	Fall/Spring	Eng./Tur.
<b>ITB2090</b>	Democracy: Principles and Institutions	3	Fall/Spring	Eng./Tur.
<b>ITB3010</b>	Introduction to Sociology	3	Fall/Spring	Eng./Tur.
<b>ITB3020</b>	Introduction to Philosophy	3	Fall/Spring	Eng./Tur.
<b>ITB3040</b>	Political Developments and Social Movements in Twentieth-Century World and Turkey	3	Fall/Spring	Eng./Tur.
<b>ITB3130</b>	Political Ideologies: Theory and History	3	Fall/Spring	Eng./Tur.
<b>ITB3150</b>	History and Cinema	3	Fall/Spring	Eng./Tur.
<b>ITB3210</b>	Communication in Contemporary Society	3	Fall	Turkish
<b>ITB3220</b>	Modernity and Consumer Society	3	Fall/Spring	Eng./Tur.
<b>ITB3260</b>	Cultural Studies and Identity	3	Fall/Spring	Eng./Tur.
<b>ITB3270</b>	Istanbul, Past, Present and Future	3	Fall/Spring	Eng./Tur.
<b>ITB3310</b>	Crime and Punishment: Criminological Perspective	3	Fall/Spring	Turkish
<b>ITB3320</b>	Economic Crimes	3	Fall/Spring	Turkish
<b>ITB3330</b>	Environment and Ecology	3	Fall/Spring	Turkish
<b>ITB3390</b>	History of Civilizations	3	Fall/Spring	Turkish
<b>ITB3420</b>	The Political and Social Structure of Ottoman Empire	3	Fall/Spring	Eng./Tur.
<b>ITB3550</b>	Human Rights	3	Fall/Spring	Eng./Tur.
<b>ITB3560</b>	Political Philosophy	3	Fall/Spring	Turkish
<b>ITC1020</b>	Social Structures, Historical Transformations	3	Fall/Spring	Turkish
<b>SBP2072</b>	History of Towns and Town Planning	3	Spring	Turkish

<b>SBP3021</b>	Planning Theories and Technics	3	Spring	Turkish
<b>SYP1021</b>	History of Civilization	3	Fall	Turkish
<b>SYP1041</b>	Introduction to Art History	3	Fall	Turkish
<b>SYP2192</b>	Culturel Management and Its Agents II	3	Spring	Turkish

**MASTER COURSES AT DUESSELDORF UNIVERSITY OF APPLIED SCIENCES (FHD)  
 (Master Programm: Simulation und Experimentaltechnik (SET) ) THAT ARE OFFERED IN ENGLISH**

<b>Code</b>	<b>TITLE</b>	<b>ECTS</b>	<b>SEMESTER</b>	<b>LANGUAGE</b>
2004	Computational Fluid Dynamics I	3	Spring	English
2005	Computational Fluid Dynamics (P)	2	Spring	English
2010	Modelling and Simulation	4	Spring	English
3001	Ambient Air Related Measurement Techniques	6	Spring	English
3002	Wind Turbine Technology	6	Fall	English
3005	Computational Fluid Dynamics II	6	Fall	English
3007	Simulation of Mechanical Systems	6	Fall	English

***industrial engineering (IE):***

CODE	TITLE	ECTS	Semester	Language	CODE	TITLE	ECTS	Semester	Language
1102	Mathematik II	6	Spring	German	MAT 1072	Mathematics 2	6	Spring	Eng./Tur.
1201	Physik	3	Fall	German	FIZ 1001	Physics 1	5	Fall	Eng./Tur.
1202	Werkstoffkunde	2	Fall	German	END 2822	Material Science	4	Fall	English
1301	CAD (P)		Spring	German	END 1201	Computer Aided Design	6	Fall/Spring	Turkish
1401	Grundlagen der Betriebswirtschaftslehre	5	Fall	German	ISL 1611	Introduction to Business	5	Fall	Turkish
1402	Buchführung und Jahresabschluss	5	Fall	German	END 2162	Finance	5	Spring	Turkish
1501	Kosten- und Leistungsrechnung	5	Spring	German	END2 101	Cost Accounting in Industrial Engineering	5	Fall	Turkish
1502	Statistik I (deskriptiv)	5	Spring	German	END 2202	Probability	5	Spring	Turkish
2302	Investitions- und Wirtschaftlichkeitsrechnung	5	Fall	German	END 3761	Investment Planning	3	Fall	Tur.
2303	Statistik II	2	Fall	German	END 3201	Statistics	5	Fall	Tur.
2503	Produktionsplanung und -steuerung (PPS)	2	Spring	German	END 4261	Production Planning and Control	4	Fall	Eng.
2501	Fabrikplanung u. Qualitätsmanagement	5	Spring	German	END 4271	Quality Management	4	Fall	Tur.
2505	Projektmanagement und Problemlösungsmethoden	4	Fall	German	END 3781	Project Management	3	Fall/Spring	Tur.
2402	SCM (Supply Chain Management) Logistik	2	Spring	German	END4152	Supply Chain and Logistics Management	4	Spring	English
2403	Wirtschaftsrecht	5	Spring	German	ISL1711	Introduction to Law	4	Fall	Eng./Tur.
2801	Marketing und Vertrieb	5	Spring	German	END3741	Marketing and Sales Management	3	Fall	Turkish
3017	Industrieroboter (Servoantriebe) (Technik)	5	Spring	German	END2712	Industrial Robotics	4		
3042	Technische Logistik (Technik)	5	Spring	German	END3831	Logistic Information Systems	3	Fall	English
5500/4500	Abschlussarbeit/ Kolloquium	12/3	Fall	German	END 4000	Graduation Thesis	8	Spring	Turkish

**Courses at FH D with no equivalent**

CODE	TITLE	ECTS	SEMESTER	LANGUAGE
1103	Informatik I	2	Fall	German
1101	Mathematik I	6	Fall	German
1105	Informatik I (P)	1	Fall	German
1104	Informatik II	2	Spring	German
1106	Informatik II (P)	1	Spring	German
2206	Regelungstechnik für Maschinenbau (P)	1	Fall	German
2204	Spanende Fertigung (P)	1	Spring	German
2202	Spanlose Fertigung (P)	1	Spring	German
2301	Unternehmensplanspiel (P)	4	Fall	German
2504	Produktionsplanung und -steuerung (P)	2	Spring	German
2502	Fabrikplanung u. Qualitätsmanagement (P)	1	Spring	German
1303	Elektrotechnik für Wirtschaftsingenieure	7	Spring	German
1302	Grundlagen der Technischen Mechanik	4	Fall	German
1601	Technisches Englisch	2	Fall	English
1602	Wirtschafts-Englisch	2	Spring	English
2205	Regelungstechnik	2	Fall	German
2203	Spanende Fertigung	5	Spring	German
2201	Spanlose Fertigung	5	Spring	German
5100	Rechnerintegrierte Kommunikation und wirtschaftliche Produktion	7	Spring	German
5400	Einführung wissenschaftliches Arbeiten	4	Fall	German
3007	CAD-Vertiefung und Anwendung (Technik)	5	Spring	German
3061	Dynamik (Technik)	5	Spring	German
3015	Formgedächtnistechnik (Technik)	5	Spring	German
3050	Gießereitechnik I (Technik)	5	Spring	German
3053	Gießereitechnik II (Technik)	5	Fall	German

3009	Grundlagen speicherprogrammierbarer Steuerungen (Technik)	5	Spring	German
3963	Höhere Technische Mechanik (Technik)	5	Spring	German
3024	Maschinendynamik (Technik)	5	Spring	German
3054	Mechanik computerorientiert (Technik)	5	Spring	German
3091	Methoden der Produktionsoptimierung (Technik)	5	Spring	German
3027	Modellbildung u. Simulation dynamischer Systeme (Technik)	5	Spring	German
3093	Product LifeCycle Management PLM Projektstudium (Technik)	5	Spring	German
3030	Produktentwicklungsstudien (Technik)	5	Spring	German
3028	Produktionsplanung und – steuerung Projektstudium (Technik)	5	Spring	German
3029	Prototyping (Technik)	5	Spring	German
3032	Schweißtechnik I (Technik)	5	Fall	German
3033	Schweißtechnik II (Technik)	5	Spring	German
3035	Sondergebiete der Physik (Technik)	5	Spring	German
3092	Strategien der Produktion (Technik)	5	Spring	German
3043	Theoretische Methoden in den Ingenieurwissenschaften (Technik)	5	Spring	German
3047	Visualisierungstechniken (Technik)	5	Spring	German
4401	Fallstudien zu volks- und welt-wirtschaftlichen Problemstellungen (Wirtschaft)	5	Spring	German
4403	Fallstudien zum ökologischen Umbau der Marktwirtschaft mit marktwirtschaftlichen Methoden	5	Spring	German
4405	F&E- und Änderungsmanagement	5	Spring	German
3051	Recht für Ingenieure I	5	Spring	German
3053	Recht für Ingenieure II	5	Fall	German
4404	Service Management	5	Spring	German
4402	Unternehmensgründung inkl. Businessplan	5	Spring	German



**Courses at YTU with no equivalent**

CODE	TITLE	ECTS	SEMESTER	LANGUAGE
END 1111	Introduction to Industrial Engineering	5	Fall	Eng.
MAT 1071	Mathematics 1	6	Fall	Eng./Tur.
END 1201	Computer Aided Design	6	Fall/Spring	Tur.
MDB 1031	Advanced English I	3	Fall	Eng.
TDB 1031	Turkish language 1	2	Fall	Tur.
MAT 1320	Linear Algebra	3	Fall/Spring	Tur.
TDB 1032	Turkish language 2	2	Spring	Tur.
MDB 1032	Advanced English II	3	Spring	Eng.
FIZ 1002	Physics 2	5	Spring	Eng./Tur.
MAT 2411	Differential Equations	5	Fall	Eng./Tur.
KIM 1170	General Chemistry	5	Fall/Spring	Turkish
END4202	Facilities Planning and Control	4	Spring	English
ATA1031	Principles of Atatürk and History of Modern Turkey I	2	Fall	Tur.
END 2201	Computer Programming	5	Fall	Eng.
END 2312	Ergonomy	5	Spring	Tur.
END 2412	Manufacturing Processes	5	Spring	Tur.
ATA 1032	Principles of Atatürk and History of Modern Turkey II	2	Spring	Tur.
END 3101	Operations Research 1	5	Fall	Tur.
END 3301	System Analysis	4	Fall	Tur.
END 3401	Work Methods and Measurements	4	Fall	Tur.
END 3511	Production Systems	4	Fall	Tur.
END 2132	Operations Research 2	6	Spring	Tur.
END 3132	Simulation	6	Spring	Tur.
END 3302	Engineering Economics	6	Spring	Eng.
END 3992	Industrial Engineering Design I	5	Spring	Tur.
END 4301	Occupational Safety	3	Fall	Eng.
END 4401	Lab. & Tech. Field Trip	3	Fall	Tur.

<b>END 4991</b>	Industrial Engineering Design 2	5	Fall	Tur.
<b>END 4001</b>	Technical Internship 1	2	Fall	Tur.
<b>END 4232</b>	Industrial Management	4	Spring	Tur.
<b>END 4002</b>	Technical Internship 2	2	Spring	Tur.
<b>ITC 1020</b>	Social Structures, Historical Transformations	3	Fall/Spring	Tur.
<b>ITB 2030</b>	Philosophy of Science	3	Fall/Spring	Tur.
<b>ITB 2080</b>	Women in Social Transformations	3	Fall/Spring	Eng./Tur.
<b>ITB 2090</b>	Democracy: Principles and Institutions	3	Fall/Spring	Eng./Tur.
<b>ITB 3010</b>	Introduction to Sociology	3	Fall/Spring	Eng./Tur.
<b>ITB 3020</b>	Introduction to Philosophy	3	Fall/Spring	Eng./Tur.
<b>ITB 3040</b>	Political Developments ana Social Movements in Twentieth-Century World and Turkey	3	Fall/Spring	Eng./Tur.
<b>ITB 3130</b>	Political Ideologies: Theory and History	3	Fall/Spring	Eng./Tur.
<b>ITB 3150</b>	History and Cinema	3	Fall/Spring	Eng./Tur.
<b>ITB 3210</b>	Communication in Contemporary Society	3	Fall	Tur.
<b>ITB 3220</b>	Modernity and Consumer Society	3	Fall/Spring	Eng./Tur.
<b>ITB 3260</b>	Cultural Studies and Identity	3	Fall/Spring	Eng./Tur.
<b>ITB 3270</b>	Istanbul: Past, Present, and Future	3	Fall/Spring	Eng./Tur.
<b>ITB 3310</b>	Crime and Punishment: Criminological Perspective	3	Fall/Spring	Tur.
<b>ITB 3320</b>	Economic Crimes	3	Fall/Spring	Tur.
<b>ITB 3330</b>	Environment and Ecology	3	Fall/Spring	Tur.
<b>ITB 3390</b>	History of Civilizations	3	Fall/Spring	Tur.
<b>ITB 3420</b>	The Political and Social Structure of Ottoman Empire	3	Fall/Spring	Eng./Tur.
<b>IKT 1122</b>	Social Structure of Turkey	4	Spring	Eng./Tur.
<b>ISL 1622</b>	Behavior Science	4	Spring	Eng./Tur.
<b>END 2812</b>	Introduction to NanoTechnology	4	Spring	Eng.
<b>END 2832</b>	Energy Systems	4	Spring	Eng.
<b>END 2842</b>	Automatic Control	4	Spring	Eng.
<b>END 2852</b>	Measurement Techniques	4	Spring	Eng.
<b>END 2862</b>	Renewable Energy Sources	4	No set	Eng.
<b>END 2161</b>	Introduction to Information Systems and Technologies	5	Fall	Tur.

<b>END 2171</b>	Database Management Systems	5	Fall	Tur.
<b>END 2711</b>	Numerical Analysis	5	Fall	Eng.
<b>SBU 2612</b>	Political Parties	4	Spring	Tur.
<b>SBU 2711</b>	Contemporary Political	4	Fall	Eng./Tur.
<b>SBU 3551</b>	State and Religion in the Middle East	4	Spring	Tur.
<b>SBU 4611</b>	Nation-Building Processes in the Balkans and Turkey	4	Fall	Eng./Tur.
<b>END 2722</b>	Cellular Manufacturing	4	Spring	Tur.
<b>END 2732</b>	Material Handling Systems	4	Spring	Tur.
<b>END 2742</b>	Manufacturing Resources Planning	4	Spring	Tur.
<b>END 2752</b>	Modern Manufacturing Processes	4	Spring	Tur.
<b>END 2762</b>	Scheduling	4	Fall	Tur.
<b>END 3711</b>	Performance Management	3	No set	Tur.
<b>END 3721</b>	Productivity in Organizations	3	Fall	Tur.
<b>END 3731</b>	Organizational Behavior	3	Fall	Tur.
<b>END 3751</b>	Work Evaluation	3	Fall	Tur.
<b>END 377</b>	Organizational and Industrial Psychology	3	Fall	Tur.
<b>END 3791</b>	Transportation Management	3	Fall	Tur.
<b>END 3701</b>	Emergency and Crisis Management	3	Fall	Tur.
<b>END 3811</b>	Production Information Systems	3	Fall	Eng.
<b>END 3821</b>	Enterprise Resource Planning Systems	3	Fall	Eng.
<b>END 3831</b>	Logistic Information Systems	3	Fall	Eng.
<b>END 3841</b>	Artificial Intelligence and Expert Systems	3	Fall	Eng.
<b>END 3851</b>	E-Business	3	Fall	Eng.
<b>END 3861</b>	E-Government	3	Fall	Eng.
<b>END 3712</b>	Design of Experiments	3	Spring	Eng.
<b>END 3722</b>	Statistical Quality Control	3	Spring	Eng.
<b>END 3732</b>	Multivariate Statistical Quality Control	3	Spring	Tur.
<b>END 3742</b>	Advanced Quality Engineering	3	Fall	Tur.
<b>END 3752</b>	Statistical Decision Making	3	Spring	Eng.
<b>END 3762</b>	Failure Mode Effects Analysis	3	Spring	Eng.

<b>END 3772</b>	Stochastic Processes	3	Fall	Eng.
<b>END 3812</b>	Supply Chain Design	4	Spring	Tur.
<b>END 3822</b>	Modelling	4	Spring	Tur.
<b>END 3832</b>	Introduction To Fuzzy Sets	4	Spring	Tur.
<b>END 3842</b>	Dynamic Programming	4	Spring	Tur.
<b>END 3852</b>	Decision Theory	4	Spring	Tur.
<b>END 3862</b>	Game Theory and Strategies	4	Spring	Tur.
<b>END 3872</b>	Large Scale Optimization	4	Spring	Tur.
<b>END 3882</b>	Heuristic Optimization Methods	4	Spring	Tur.
<b>END4711</b>	Pricing and Revenue Optimization	3	Fall	Eng.
<b>END4721</b>	Inventory Models	3	Fall	Eng.
<b>END4731</b>	Queueing Theory	3	Fall	Eng.
<b>END4671</b>	Integer Programming and Combinatorial Optimization	3	Fall	Eng.
<b>END4511</b>	Reverse Logistics	3	Fall	Eng.
<b>END4531</b>	Simulation Languages	3	Fall	Eng.
<b>END4771</b>	Nonlinear Programming	3	Fall	Eng.
<b>END4541</b>	Multiple Criteria Decision Making	3	Fall	Tur.
<b>END4551</b>	Theory of Unconstrained Optimization	3	Fall	Eng.
<b>END4561</b>	Convex Programming	3	Fall	Eng.
<b>END4571</b>	System Dynamics	3	Fall	Eng.
<b>END4811</b>	Feasibility Study	3	Fall	Eng.
<b>END4821</b>	Lean Manufacturing	3	Fall	Eng.
<b>END4831</b>	Computer Integrated Manufacturing	3	Fall	Eng.
<b>END4581</b>	Maintenance Management	3	Fall	Eng.
<b>END4851</b>	Intelligent Manufacturing Systems	3	Fall	Eng.
<b>END4861</b>	Reverse Engineering	3	Fall	Eng.
<b>END4871</b>	Pricing Systems	3	Fall	Eng.
<b>END4891</b>	Energy Economics	3	Fall	Eng.
<b>END4921</b>	Introduction to Enterprise Resource Planning	3	Fall	Tur.
<b>END4931</b>	Computer Hardware and System Softwares	3	Spring	Tur

<b>END4941</b>	Introduction to Decision Support Systems	3	Spring	Eng.
<b>END4951</b>	Industrial Application Softwares	3	Fall	Tur.
<b>END4961</b>	Legal and Ethical Issues in Information Systems	3	Fall	Tur.
<b>END4981</b>	Object Oriented Simulation	3	Fall	Tur.
<b>END4712</b>	Process Management and Six Sigma	4	Fall	Tur.
<b>END4722</b>	Process Capability Analysis	4	Spring	Tur.
<b>END4732</b>	Quality Management Systems	4	Spring	Eng.
<b>END4682</b>	Quality in Health Care System	4	Spring	Eng.
<b>END4752</b>	Quantitative Forecasting Methods	4	Spring	Eng.
<b>END4672</b>	Risk Assessment and Management	4	Spring	Tur.
<b>END4772</b>	Reliability Engineering	4	Spring	Tur.
<b>END4812</b>	Foreign Trade Management	4	Spring	Eng.
<b>END4822</b>	Human Resources Management	4	Spring	Eng.
<b>END4832</b>	Warehouse Management	4	Spring	Eng.
<b>END4922</b>	Management for Small and Medium Sized Enterprise	4	Spring	Eng.
<b>END4852</b>	Cost Analysis and Control	4	Spring	Eng.
<b>END4862</b>	Financial Engineering	4	Spring	Eng.
<b>END4872</b>	Strategic Management	4	Spring	Eng.
<b>END1712</b>	Economy	6	Spring	Eng.
<b>END1722</b>	Technology Management	6	Spring	Eng.
<b>END1732</b>	Business Ethics	6	Spring	Eng.
<b>END1742</b>	Innovation and Entrepreneurship	6	Spring	Eng.