

## HTWG-Kettering

Studiengang MAB / Anrechnung von Studienleistungen

Version: 14.06.2021

HTWG		Kettering		Quelle: <a href="http://catalog.kettering.edu/coursesaz/undergrad/">http://catalog.kettering.edu/coursesaz/undergrad/</a>
MO Modul / - Lehrveranstaltung Nr.	ECTS	Lehrveranstaltung Nr. / Name / Credits		
<b>Hauptstudium Allgemein</b>				
19 Automatisierung, Regelungstechnik und Elektrische Antriebe	8	MECH-330 Dynamic Systems with Vibrations 3 Credits		Terms Offered: Summer, Fall, Winter, Spring
		MECH-331 Dynamic Sys w Vibrations Lab 1 Credits		
20 Messtechnik	6	MECH-414 Experimental Mechanics 4 Credits		Terms Offered: Fall, Winter
21 Programmieren und Simulation, Grundlagen für Industrie 4.0	6	IME-422 Simulation 4 Credits		Terms Offered: Summer, Fall
22 Projektarbeit 1	5	Freie Wahl		
23 Wärme- und Stoffübertragung	5	MECH-420 Heat Transfer 4 Credits		Terms Offered: Summer, Fall, Winter, Spring
24 Studium Generale und Sozialkompetenz	2	Sprachen		
25 Betriebswirtschaft	5	ECON-201 Economic Principles 4 Credits		Terms Offered: Summer, Fall, Winter, Spring
26 Hydraulik und Pneumatik	2			
27 Qualitätsmanagement	2	IME-471 Quality Assurance 4 Credits		Terms Offered: Summer, Fall, Winter, Spring
<b>Vertiefung ML</b>				
28 Konstruktionslehre 4, Produktentwicklungsseminar	6	MECH-413 Mechanical Systems Design Project 4 Credits		Terms Offered: Summer, Fall
29 Werkstoffkunde und Fertigungsverfahren 3	10			
30 Finite Elemente Methode	5	MECH-416 Introduction to Finite Element Analysis with Structural Applications 4 Credits		Terms Offered: Summer, Fall
31 Leichtbau	5	MECH-482 Mechanics and Design Simulation of Fiber-Reinforced Composite Materials 4 Credits		Terms Offered: Directed Study
32 Betriebsfestigkeit, Tribologie und Korrosion	5	MECH-412 Mechanical Component Design II 4 Credits		Terms Offered: Directed Study
<b>Vertiefung MK</b>				
28 Konstruktionslehre 4, Produktentwicklungsseminar	6	MECH-413 Mechanical Systems Design Project 4 Credits		Terms Offered: Summer, Fall
29 Werkstoffkunde und Fertigungsverfahren 3	10			
30 Finite Elemente Methode	5	MECH-416 Introduction to Finite Element Analysis with Structural Applications 4 Credits		Terms Offered: Summer, Fall
31 Mechanismen, Getriebelehre, CAE	5	MECH-510 Analysis and Design of Machines and Mechanical Assemblies 4 Credits		Terms Offered: Directed Study
32 Betriebsfestigkeit, Dynamik technischer Systeme	5	MECH-412 Mechanical Component Design II 4 Credits		Terms Offered: Directed Study
<b>Vertiefung MM</b>				
28 Fahrzeugtechnik, Fahrerassistenzsysteme	6	MECH-444 Introduction to Automotive Powertrains 4 Credits		Terms Offered: Winter, Spring
29 Elektrotechnik 2, Schaltungstechnik	5			
30 Regelungstechnik und Microcontroller- Programmierung	6	MECH-430 Dynamic Systems with Controls 3 Credits		Terms Offered: Summer, Fall, Winter, Spring
		MECH-431 Dynamic Sys w Controls Lab 1 Credits		
31 Antrieb und Energieversorgung in Fahrzeugen	7	MECH-441 Advanced Automotive Power Systems 4 Credits		Terms Offered: Winter, Spring
32 Numerische Strömungssimulation	4	MECH-523 Applied Computational Fluid Dynamics 4 Credits		Terms Offered: Fall
33 Labor Fahrzeugtechnik	3			

**Vertiefung ME**

28	Strömungsmaschinen	9	MECH-421 Energy and Environmental System Design 4 Credits	Terms Offered: Winter, Spring
29	Numerische Strömungssimulation	4	MECH-523 Applied Computational Fluid Dynamics 4 Credits	Terms Offered: Fall
30	Finite Elemente Methode	5	MECH-416 Introduction to Finite Element Analysis with Structural Applications 4 Credits	Terms Offered: Summer, Fall
31	Energiesysteme, Erneuerbare Energietechnik	10		
32	Thermische Maschinen, Labor	3		

**Vertiefung MP**

28	Digitale Produktion, Automatisierungstechnik	5	IME-409 Computer Integrated Manufacturing 4 Credits	Terms Offered: Summer, Fall
29	Produktionsmanagement	5	IME-452 Production System Design 4 Credits	Terms Offered: Winter, Spring
30	Werkstoffkunde und Fertigungsverfahren 3	10		
31	Industrielle Logistik	5	IME-453 Tools for Managing the Supply Chain 4 Credits	Terms Offered: Summer, Fall
32	Werkzeugmaschinen	6	IME-403 Computer Numerical Control Machining 4 Credits	Terms Offered: Winter, Spring