

English taught courses in the Department of Mechanical Engineering / Karlsruhe Institute of Technology KIT

Course number/Code	BSc	MSc	Component Title	Lecturer	Type	Term	ECTS
Automotive Engineering							
2113809	B	M	Automotive Engineering I	F. Gauterin, M. Gießler	Lecture (V)	WiSe	8
2113851	B	M	Principles of Whole Vehicle Engineering I	R. Frech	Block-Lecture (BV)	WiSe	2
2114855		M	Automotive Engineering II	M. Gießler	Lecture (V)	WiSe	2
2114856	B	M	Vehicle Ride Comfort & Acoustics I	F. Gauterin	Lecture (V)	SoSe	4
2114857	B	M	Vehicle Ride Comfort & Acoustics II	F. Gauterin	Lecture (V)	SoSe	4
2114860	B	M	Principles of Whole Vehicle Engineering II	R. Frech	Lecture (V)	SoSe	2
Manufacturing Engineering							
2110969	B		Arbeitstechniken im Maschinenbau	B. Deml	Lecture (V)	SoSe	2
2117059		M	Mathematische Modelle und Methoden für Produktionssysteme	K. Furmanns, M. Rimmele	Lecture (V)	WiSe	6
Economy							
2182749			Calculus III	S. Ochanine, P. Gruber, D. Leep	Lecture (V)	SoSe	
2581012		M	Renewable Energy - Resources, Technology and Economics	R. McKenna	Lecture (V)	WiSe	3,5
2581998		M	Liberalised Power Markets	W. Fichtner	Lecture (V)	WiSe	3
2545001			Entrepreneurship	O. Terzidis	Lecture (V)	SoSe	3
Energy, Environment and Safety							
22331		M	Chemical Fuels	S. Bajohr, G. Schaub	Lecture (V)	SoSe	4
22528		M	Applied Combustion Technology (ENTECH)	P. Habisreuther	Lecture (V)	SoSe	2
22531		M	Laboratory Work in Combustion Technology (ENTECH)	N. Zarzalis	Lab (P)	SoSe	2
2130910		M	CFD for Power Engineering	I. Otic	Lecture (V)	SoSe	4
2169453	B	M	Thermal Turbomachines 1	H. Bauer	Lecture (V)	WiSe	6
2169454		M	Tutorial - Thermal Turbo Machines I (Übungen zu Thermische Turbomaschinen I)	H. Bauer	Tutorial (Ü)	WiSe	
2169461		M	Coal Fired Power Plants (Kohlekraftwerkstechnik)	T. Schulenberg	Lecture (V)	WiSe	4
2169550	B	M	Reliability Engineering I	A. Konnov	Lecture (V)	SoSe	3
2170460		M	Nuclear Power Plant Technology (Kernkraftwerkstechnik)	T. Schulenberg	Lecture (V)	SoSe	4
2170553	B	M	Thermal Turbomachines 2	H. Bauer	Lecture (V)	SoSe	6
2170477		M	Tutorial - Thermal Turbomachines II (Thermische Turbomaschinen II)	H. Bauer	Tutorial (Ü)	SoSe	
2170490		M	Combined Cycle Power Plants (Gas- und Dampfkraftwerke)	T. Schulenberg	Lecture (V)	SoSe	4
2170491		M	Simulator Exercises Combined Cycle Power Plants (Simulator-Praktikum Gas- und Dampfkraftwerke)	T. Schulenberg	Lecture (V)	SoSe	2
2189404	B	M	Der Betrieb von Kraftwerken in der Praxis	M. Seidl, R. Stieglitz	Lecture (V)	WiSe	4
2189904		M	Ten lectures on turbulence	I. Otic	Lecture (V)	WiSe	4
2189907		M	Heat Transfer in Nuclear Reactors	X. Cheng	Lecture (V)	SoSe	4
2189920		M	Nuclear Fusion Technology	A. Badea	Lecture (V)	WiSe	4
2189921		M	Nuclear Power and Reactor Technology	A. Badea	Lecture (V)	WiSe	6
2190465			Fundamentals of reactor safety for the operation and dismantling of nuclear power plants	V. Sánchez-Espinoza	Block-Lecture (BV)	WiSe	
2190490		M	Introduction to Neutron Cross Section Theory and Nuclear Data Generation	R. Dagan	Lecture (V)	SoSe	4
Mechanics/Dynamics							
2161123		M	Computational homogenization on digital image data	M. Schneider	Lecture (V)	WiSe	6
2161124		M	Übung zu Computational homogenization on digital image data	M. Schneider, C. Dorn	Tutorial (Ü)	WiSe	
2161224	B	M	Machine Dynamics	C. Proppe	Lecture (V)	SoSe	5
2161225	B		Übungen zu Maschinendynamik	C. Proppe, M. Koebele	Tutorial (Ü)	SoSe	
2162220	B	M	Machine Dynamics II	C. Proppe	Lecture (V)	WiSe	4
2162344	B	M	Nonlinear Continuum Mechanics	T. Böhlke	Lecture (V)	SoSe	5
2162345	B	M	Übungen in Nonlinear Continuum Mechanics	D. Wicht, T. Böhlke	Tutorial (Ü)	SoSe	
2181740	B	M	Atomistische Simulation und Molekulardynamik	C. Brandl, P. Gumbsch	Lecture (V)	SoSe	4
2181741	B	M	Übung zu Atomistische Simulation und Molekulardynamik	C. Brandl, P. Gumbsch	Tutorial (Ü)	SoSe	

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Mechatronics, Microsystems and Material Technology							
2141501		M	Micro Magnetic Resonance	J. Korvink, N. MacKinnon	Lecture (V)	WiSe	4
2141861		M	Introduction to Microsystem Technology I	J. Korvink, V. Badilita, M. Jouda	Lecture (V)	WiSe	4
2142874		M	Introduction to Microsystem Technology II	J. Korvink, V. Badilita, M. Jouda	Lecture (V)	SoSe	4
2142897	B	M	Microenergy Technologies	M. Kohl	Lecture (V)	SoSe	4
2143301			Mikro und Nano Fertigung mit Karbon	S. Sharma	Lecture (V)	SoSe	4
2178123		M	Thin film and small-scale mechanical behavior	P. Gruber, D. Weygand, C. Brandl	Lecture (V)	SoSe	4
Electrical and Information Engineering							
2121352		M	Virtual Engineering 1	J. Ovtcharova	Lecture (V)	WiSe	4
2122378		M	Virtual Engineering 2	J. Ovtcharova	Lecture (V)	SoSe	4
2137308	B	M	Machine Vision	C. Stiller, M. Lauer	Lecture (V)	WiSe	8
2304211			Materials and Devices in Electrical Engineering	A. Weber	Lecture (V)	WiSe	3
2305263			Electromagnetics and Numerical Calculations of Fields	O. Dössel	Lecture (V)	WiSe	
2306315		M	Electrical Machines	M. Doppelbaur	Lecture (V)	SoSe	4
2307376			Electric Power Transmission and Grid Control	T. Leibfried	Lecture (V)	WiSe	
2307388		M	Modern Software Tools in Power Engineering (ENTECH)	T. Leibfried	Lecture (V)	SoSe	6
2307399			Electric Power Generation and Power Grid	B. Hoferer	Lecture (V)	WiSe	3
2308405			Radar Systems Engineering	W. Wiesbeck	Lecture (V)	WiSe	3
2308448			Space-born Microwave Radiometry - Advanced Methods and Applications	H. Süß	Lecture (V)	SoSe	3
2312682			Superconducting Materials for Energy Applications	F. Grilli	Lecture (V)	SoSe	3