

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



Status: August 2018

Course number/ Code	BSc	MSc	Component Title	Lecturer	Type	Term	ECTS
Automotive Engineering							
2113809	x	x	Automotive Engineering 1	F. Gauterin, M. Gießler	lecture	W	8
2114856	x	x	Vehicle Ride Comfort and Acoustics 1	F. Gauterin	lecture	S	4
2114857	x	x	Vehicle Ride Comfort and Acoustics 2	F. Gauterin	lecture	S	4
Manufacturing Engineering							
2117059		x	Mathematical models and methods for production systems	K. Furmanns, M. Rimmele	lecture	W	6
2110969	x		Working Methods in Mechanical Engineering	B. Deml	lecture	S	2
Economy							
2581998		x	Basics of Liberalised Energy Markets	W. Fichtner	lecture	W	3
2581012	x		Renewable Energy - Resources, Technology and Economics	R. McKenna	lecture	W	3,5
Energy, Environment and Safety							
2130910		x	CFD for Power Engineering	I. Otic	lecture	S	4
2189907		x	Heat Transfer in Nuclear Reactors	X. Cheng	lecture	W	4
22331		x	Chemical Fuels	S. Bajohr, G. Schaub	lecture	S	4
2170490		x	Combined Cycle Power Plants	T. Schulenberg	lecture	S	4
2169461		x	Coal Fired Power Plants (Kohlekraftwerkstechnik)	T. Schulenberg	lecture	W	4
2190490		x	Introduction to Neutron Cross Section Theory and Nuclear Data Generation	R. Dagan	lecture	S	4
2189920		x	Nuclear Fusion Technology	A. Badea	lecture	W	4
2189921		x	Nuclear Power and Reactor Technology	A. Badea	lecture	W	6
2189904		x	Ten lectures on turbulence	I. Otic	lecture	W	4
2169453	x	x	Thermal Turbomachines 1	H. Bauer	lecture	W	6
2170476		x	Thermal Turbomachines 2	H. Bauer	lecture	S	6
2170460		x	Nuclear Power Plant Technology	T. Schulenberg	lecture	S	4
2170491		x	Simulator Exercises Combined Power Plants	T. Schulenberg	lecture	S	2
2189404	x	x	A holistic approach to Power Plant Management	M. Seidl, R. Stieglitz	lecture	W	4
Mechanics/Dynamics							
2161224	x	x	Machine Dynamics I	C. Proppe	lecture	S	5
2162220		x	Machine Dynamics II	C. Proppe	lecture	W	4
2162344		x	Nonlinear Continuum Mechanics	T. Böhlke	lecture	S	5
2181740		x	Atomistic Simulations and Molecular Dynamics	C. Brandl, P. Gumbsch	lecture	S	4
Mechanical Design							
2145186	x	x	Mechanical Design 1	A. Albers, N. Burkardt	lecture	W	4
Mechatronics, Microsystems and Material Technology							
2142897		x	Microenergy Technologies	M. Kohl	lecture	S	4
2141861		x	Introduction to Microsystem Technology I	J. Korvink, V. Badilita, M. Jouda	lecture	W	4
2142874		x	Introduction to Microsystem Technology II	J. Korvink, V. Badilita, M. Jouda	lecture	S	4
2141501		x	Micro Magnetic Resonance	J. Korvink, N. MacKinnon	lecture	W	4
2118077	x	x	Safe Mechatronics Systems	M. Golder, M. Mittwollen	lecture	W/S	4
2312682		x	Superconducting Materials for Energy Applications	F. Grilli	lecture	S	3
2178123		x	Thin film and small-scale mechanical behavior	P. Gruber, D. Weygand, C. Brandl	lecture	S	4
Electrical and Information Engineering							
2306315		x	Electrical Machines	M. Doppelbaur	lecture	S	4
2307376		x	Electric Power Transmission and Grid Control	T. Leibfried	lecture	W	6
2307399		x	Electric Power Generation and Power Grid	B. Hoferer	lecture	W	3
2307388		x	Modern Software Tools in Power Engineering	T. Leibfried	lecture	S	6
2137308	x	x	Machine Vision	C. Stiller, M. Lauer	lecture	W	8
2304211	x		Materials and Devices in Electrical Engineering	A. Weber	lecture	W	3
2308448	x		Space-born Microwave Radiometry - Advanced Methods and Applications	H. Süß	lecture	S	3
2308405	x		Radar Systems Engineering	W. Wiesbeck	lecture	W	3
2305263	x		Electromagnetics and Numerical Calculations of Fields	O. Dössel	lecture	W	5,4
2121352		x	Virtual Engineering 1	J. Ovtcharova	lecture	W	6
2122378		x	Virtual Engineering 2	J. Ovtcharova	lecture	S	4