

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

Course number/Code	Code new	BSc	MSc	Component Title	Lecturer	Type	Term	ECTS
Automotive Engineering								
2113809	T-MACH-100092		M	Automotive Engineering I	Gauterin, Gießler	Lecture (V)	W	8
2113851	T-MACH-105162	B	M	Principles of Whole Vehicle Engineering I	Frech	Lecture (V)	W	2
2114855	T-MACH-102117		M	Automotive Engineering II	Gauterin, Gießler	Lecture (V)	S	4
2114856	T-MACH-105154		M	Vehicle Ride Comfort & Acoustics I	Gauterin	Lecture (V)	S	4
2114857	T-MACH-105155		M	Vehicle Ride Comfort & Acoustics II	Gauterin	Lecture (V)	S	4
2114860	T-MACH-105163	B	M	Principles of Whole Vehicle Engineering II	Frech	Lecture (V)/Blockvorl	S	2
Manufacturing and Production Engineering								
22527			M	Design of a jet engine combustion chamber	Zarzalis	Project/Seminar (PJ/S)	W	6
2142551	T-MACH-108407		M	Design und Entwicklung eines MRT-Probenkopfes	M. Jouda, J. Korvink	P/ Blockveranstaltung	S	4
2117059	T-MACH-105189	B	M	Mathematische Modelle und Methoden für Produktionssysteme	Stoll, Furmans	Lecture (V)	W	6
Economy								
2169466	T-MACH-109185		M	Innovatives Projekt	Class, Terzidis	Project/Seminar (PJ/S)	S	6
2182749				Calculus III	Ochanine, Gruber, Leep	Lecture (V)	S	
2545007			M	Business Planning for Founders (ENTECH)	Wohlfeil, Bauman, Terzidis	Seminar (S)	W	3
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			M	Entrepreneurship	O. Terzidis	Lecture (V)	S/W	3
Energy, Enviroment and Safety								
22331			M	Chemical Fuels	S. Bajohr, G. Schaub	Lecture (V)	S	4
22528			M	Applied Combustion Technology	Habisreuther	Lecture (V)	S	4
22531			M	Laboratory Work in Combustion Technology	Zarzalis	Lab (P)	S	4
2130910	T-MACH-105407		M	CFD for Power Engineering	I. Otic	Lecture (V)	S	4
2169553	T-MACH-105363	B	M	Thermische Turbomaschinen 1 (auf Englisch)	Bauer	Lecture/Tutorial (V/Ü)	W	6
2169454	T-MACH-105363		M	Tutorial - Thermal Turbo Machines I (Übungen zu Thermische Turbomaschinen I)	Bauer	Tutorial (Ü)	W	
2169461	T-MACH-105410		M	Coal Fired Power Plants (Kohlekraftwerkstechnik)	Schulenberg	Lecture (V)	W	4
2169550	T-MACH-107447	B	M	Reliability Engineering I	Konnov	Lecture (V)	S	3
2170460	T-MACH-105402		M	Nuclear Power Plant Technology (Kernkraftwerkstechnik)	Schulenberg	Lecture (V)	S	4
2170553	T-MACH-105364	B	M	Thermische Turbomaschinen 2 (auf Englisch)	H. Bauer	Lecture (V)	S	6
2170477	T-MACH-105364		M	Tutorial - Thermal Turbomachines II (Thermische Turbomaschinen II)	Bauer	Tutorial (Ü)	S	
2170490	T-MACH-105444		M	Combined Cycle Power Plants (Gas- und Dampfkraftwerke)	Schulenberg	Lecture (V)	S	4
2170491	T-MACH-105455		M	Simulator Training Combined Cycle Power Plants (Simulator-Praktikum Gas- und Dampfkraftwe	Schulenberg	Lab (P)	S	2
2189404	T-MACH-106698		M	Der Betrieb von Kraftwerken in der Praxis/A holistic approach to power plant management	Seidl	Lecture (V)	W	4
2189904	T-MACH-105456	B	M	Ten lectures on turbulence	Otic	Lecture (V)	W	4
2189907	T-MACH-105529	B	M	Heat Transfer in Nuclear Reactors	Cheng	Lecture (V)	S	4
2189920			M	Nuclear Fusion Technology	Badea	Lecture (V)	W	4
2189921			M	Nuclear Power and Reactor Technology	Badea	Lecture (V)	W	6
2190465	T-MACH-105530	B	M	Fundamentals of reactor safety for the operation and dismantling of nuclear power plants	Sánchez-Espinoza	Block-Lecture (BV)	W	4
2190490	T-MACH-105466	B	M	Introduction to Neutron Cross Section Theory and Nuclear Data Generation	Dagan	Lecture (V)	S	4

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Mechanics/Dynamics								
2161123	T-MACH-109302		M	Computational homogenization on digital image data	Schneider, Dorn	Lecture (V)	W	6
2161124	T-MACH-109302		M	Übung zu Computational homogenization on digital image data	Schneider, Dorn	Tutorial (Ü)	W	
2161224	T-MACH-105210	B	M	Machine Dynamics	Proppe	Lecture (V)	S	5
2161225	T-MACH-105210	B	M	Übungen zu Maschinendynamik	Proppe, Koebele-Cousquer	Tutorial (Ü)	S	
2162220	T-MACH-105224	B	M	Machine Dynamics II	Proppe	Lecture (V)	W	4
2162344	T-MACH-105532		M	Nonlinear Continuum Mechanics	Böhlke	Lecture (V)	S	5
2162345	T-MACH-105532		M	Übungen in Nonlinear Continuum Mechanics	Wicht, Böhlke	Tutorial (Ü)	S	
2181740	T-MACH-105308	B	M	Atomistische Simulation und Molekulardynamik	Brandl, Gumbsch	Lecture (V)	S	4
2181741	T-MACH-105308	B	M	Übung zu Atomistische Simulation und Molekulardynamik	Brandl, Gumbsch	Tutorial (Ü)	S	
Mechatronics, Microsystems and Material Technology								
2141501	T-MACH-105782		M	Micro Magnetic Resonance	J. Korvink, N. MacKinnon	Lecture (V)	W	4
2141861	T-MACH-105182		M	Introduction to Microsystem Technology I	J. Korvink, V. Badilita, M. Jouda	Lecture (V)	W	4
2142874	T-MACH-105183		M	Introduction to Microsystem Technology II	J. Korvink, V. Badilita, M. Jouda	Lecture (V)	S	4
2142875	T-MACH-108383		M	Mikrosystem Simulation	Korvink	Lecture/Tutorial (V/Ü)	S	4
2142897	T-MACH-105557		M	Microenergy Technologies	M. Kohl	Lecture (V)	S	4
2162277	T-MACH-108460		M	Digital Microstructure Characterization and Modeling	Schneider	Lecture/Tutorial (V/Ü)	S	6
2174600	T-MACH-105459		M	High temperature structural materials	M. Heilmaier	Lecture (V)	W	4
2178123	T-MACH-105554		M	Thin film and small-scale mechanical behavior	Schwaiger, Brandl, Gruber, Weygand	Lecture (V)	S	4
Electrical and Information Engineering								
2121352	T-MACH-102123		M	Virtual Engineering 1	J. Ovtcharova	Lecture (V)	W	4
2122378	T-MACH-102124		M	Virtual Engineering 2	J. Ovtcharova	Lecture (V)	S	4
2137308	T-MACH-105223	B	M	Machine Vision	C. Stiller, M. Lauer	Lecture (V)	W	8
2305263		B		Electromagnetics and Numerical Calculations of Fields	O. Dössel	Lecture (V)	W	4
2306315			M	Electrical Machines	M. Doppelbaur	Lecture (V)	S	4
2306350		B		Electrical Engineering and Electronics for Mechanical Engineers	Stahl, Poletkin	Lecture/Tutorial (V/Ü)	W	8
2307376			M	Electric Power Transmission and Grid Control	T. Leibfried	Lecture (V)	W	6
2307399			M	Electric Power Generation and Power Grid	B. Hoferer	Lecture (V)	W	3
2308405		B		Radar Systems Engineering	W. Wiesbeck	Lecture (V)	W	3
2308448		B		Spaceborn Microwave Radiometry - Advanced Methods and Applications	H. Süß	Lecture (V)	S	3
2312682			M	Superconducting Materials for Energy Applications	F. Grilli	Lecture (V)	S	3