

Kursliste alphabetisch Stand Juni 2021

Course Number	Brick Number	BSc	MSc	Component Title	Type	Term	ECTS	One Step Application for Exams	Lecturer	Link Institute
2189404	T-MACH-106698		M	A holistic approach to power plant management (Der Betrieb von Kraftwerken in der Praxis)	Lecture (V)	W	4	x	M. Seidl, R. Stieglitz	https://www.ifrt.kit.edu
2313724	T-ETIT-107644		M	Adaptive Optics	Lecture (V)	W	3		Gladysz	https://www.lti.kit.edu
2194660	T-MACH-108689		M	Advanced Materials Thermodynamics: Experiments and Modelling	Lecture (V)	S	4	x	Seifert/Franke	https://www.mach.kit.edu
2194658	T-MACH-106313		M	Application of Density Functional Methods to Materials Modelling	Lecture (V)	S	4		Vladimirov	https://www.iam.kit.edu/awp
2182616	T-MACH-110929	B	M	Applied Materials Simulation	Lecture/Tutorial (V/Ü)	S	6	x	Gumbsch	https://www.iam.kit.edu/cms
2110969	T-MACH-105296	B		Arbeitstechniken im Maschinenbau	Lecture (V)	S	4		Demi	www.fast.kit.edu/lff
2181740	T-MACH-105308	B	M	Atomistic Simulations and Molecular Dynamics (Atomistische Simulation und Molekulardynamik)	Lecture/Tutorial (V/Ü)	S	4	x	Weygand, Gumbsch	https://www.iam.kit.edu/cms
2113809	T-MACH-102203	B	M	Automotive Engineering I	Lecture (V)	W	8	x	Gauterin, Gießler	https://www.fast.kit.edu/lff
2114855	T-MACH-102117	B	M	Automotive Engineering II	Lecture (V)	S	4	x	Gauterin, Gießler	https://www.fast.kit.edu/lff
2138340	T-MACH-105218	B	M	Automotive Vision (Fahrzeugsehen)	Vorlesung (V)	S	6	x	Lauer, Peter	https://www.mrt.kit.edu
7148	T-CHEMBIO-105199		M	Basic Molecular Cell Biology	Lecture (V)	S	2		Weth	https://www.chem-bio.kit.edu/
5072	T-CHEMBIO-		M	Batteries and Fuel Cells	Lecture (V)	W	4		Ehrenberg / Scheiba	https://www.iam.kit.edu/ess/
2545007	T-WIWI-102865		M	Business Planning for Founders (ENTECH)	Seminar (S)	S/W	3		Wohlfeil, Bauman, Terzidis	https://etm.entechnon.kit.edu
2130910	T-MACH-105407		M	CFD in Energy engineering (CFD in der Energietechnik)	Vorlesung (V)	S	4	x	Ivan Otic	https://www.mach.kit.edu
2310546	T-ETIT-111244	B	M	Channel Coding: Algebraic Methods for Communications and Storage	Vorlesung (V)	S	3		Laurent Schmalen	https://www.cel.kit.edu
	T-MACH-105410		M	Coal Fired Power Plants (Kohlekraftwerkstechnik)	Lecture (V)	W	4	x	Schulenberg	https://www.iket.kit.edu
2170490	T-MACH-105444		M	Combined Cycle Power Plants (Gas- und Dampfkraftwerke)	Lecture (V)	S	4	x	Schulenberg	https://www.iket.kit.edu
2311616	T-ETIT-101938		M	Communication Systems and Protocols	Lecture/Tutorial (V/Ü)	S	5		Jens Becker	https://www.itiv.kit.edu
2310509	T-ETIT-110697		M	Communications Engineering II	Lecture/Tutorial (V/Ü)	W	4		Holger Jäkel	https://www.etit.kit.edu
4023161	T-PHYS-109895		M	Computational Condensed Matter Physics	Lecture/Tutorial (V/Ü)	S	12		Wenzel	https://www.physik.kit.edu
2161123	T-MACH-109302	B	M	Computational homogenization on digital image data	Lecture (V)	W	6	x	Schneider, Dorn	https://www.itm.kit.edu
4023021	T-PHYS-103633		M	Computational Photonics, with ext. Exercises	Lecture (V)	W	8		Rockstuhl	https://www.physik.kit.edu
4023021	T-PHYS-106131		M	Computational Photonics, without ext. Exercises	Lecture (V)	W	6		Rockstuhl	https://www.physik.kit.edu
2169556	T-MACH-111193		M	Data Driven Engineering 1: Machine Learning for Dynamical Systems	Vorlesung (V)	W	4		Hans-Jörg Bauer	https://www.its.kit.edu
2142551	T-MACH-108407		M	Design and development of an MRI-probe-head (Design und Entwicklung eines MRT-Probenkopfes)	P/ Blocklecture	S	4		M. Jouda, J. Korvink	https://www.imt.kit.edu
2162277	T-MACH-110431		M	Digital Microstructure Characterization and Modeling	Lecture/Tutorial (V/Ü)	S	6	x	Schneider	https://www.itm.kit.edu
2149701	T-MACH-110176		M	Digitization from Production to the Customer in the Optical Industry (Digitalisierung von der Produktion bis zum Kunden in der optischen Industrie)	Vorlesung (V)	W	4		Wawerla	https://www.wbk.kit.edu
2400006	T-INFO-110819		M	EdgeAI in Software and Sensor Applications	Vorlesung (V)	S/W	4		Victor Pankratus	https://www.informatik.kit.edu
2307399	T-ETIT-103608	B	M	Electric Power Generation and Power Grid	Lecture (V)	W	3		B. Hoferer	https://www.bgu.kit.edu
2307376	T-ETIT-110883	B	M	Electric Power Transmission and Grid Control	Lecture (V)	W	4	x	T. Leibfried	https://www.imt.kit.edu
2306350	T-ETIT-108386	B		Electrical Engineering and Electronics for Mechanical Engineers	Lecture/Tutorial (V/Ü)	W	8	x	Stahl, Poletkin	https://www.eti.kit.edu
2305263	T-ETIT-100640		M	Electromagnetics and Numerical Calculation of Fields	Lecture/Tutorial (V/Ü)	W	4		Dössel	https://www.etit.kit.edu
2545001	T-WIWI-102864		M	Entrepreneurship	Lecture (V)	S/W	3	x	O. Terzidis	https://etm.entechnon.kit.edu
2153530	T-MACH-105512	B	M	Experimental Fluid Mechanics	Vorlesung (V)	W	4	x	Jochen Kriegseis	https://www.istm.kit.edu
2313760	T-ETIT-103613		M	Fabrication and Characterisation of Optoelectronic Devices	Lecture (V)	S	3		Paetzold	https://www.imt.kit.edu
2309466	T-ETIT-100976		M	Field Propagation and Coherence	Lecture/Tutorial (V/Ü)	W	4		Wolfgang Freude	https://www.etit.kit.edu
6221806	T-BGU-110841		M	Fluid Mechanics of Turbulent Flows	Lecture/Tutorial (V/Ü)	S/W	4	x	Markus Uhlmann	https://www.bgu.kit.edu
2194720	T-MACH-110925	B	M	Fundamentals in Materials Thermodynamics and Heterogeneous Equilibria	Lecture/Tutorial (V/Ü)	S	6		Seifert, Franke	https://www.iam.kit.edu
4044021	T-PHYS-103630		M	Fundamentals of Optics and Photonics	Lecture/Tutorial (V/Ü)	W	8		Hunger	https://www.physik.kit.edu

2190465	T-MACH-105530		M	Betrieb und Rückbau von Kernkraftwerken)	Block-Vorlesung (BV)	W	4	x	Victor Hugo Sanchez-Espinoza	https://www.mach.kit.edu
2154200	T-MACH-105533	B	M	Gas dynamics (Gasdynamik)	Vorlesung (V)	W	4	x	Franco Magagnato	https://www.istm.kit.edu
2311608	T-ETIT-100672		M	Hardware Modeling and Simulation	Lecture/Tutorial (V/Ü)	W	4		Jürgen Becker	https://www.itiv.kit.edu
2189907	T-MACH-105529		M	Heat Transfer in Nuclear Reactors (Wärmeübergang in Kernreaktoren)	Vorlesung (V)	W	4	x	Xu Cheng	https://www.iatf.kit.edu
2174605	T-MACH-105459		M	High Temperature Materials	Lecture (V)	W	4	x	Heilmairer	https://www.iam.kit.edu/wk
5073	T-CHEMBIO-		M	Hydrogen as Energy Carrier	Lecture (V)	W	4		Ehrenberg / Leon	https://www.iam.kit.edu
2173583	T-MACH-110923		M	Hydrogen in Materials: from Energy Storage to Hydrogen Embrittlement	Lecture (V)	W	4		Pundt	https://www.iam.kit.edu/wk
2303192	T-ETIT-110291		M	Innovation Lab	Projekt (PRO)	W	9		Hohmann, Zwick, Stork, Sax	https://www.etit.kit.edu
2169466	T-MACH-109185		M	Innovatives Projekt	Project/Seminar (PJ/S)	S	6	x	Class, Terzidis	https://www.ites.kit.edu
2141861	T-MACH-105182	B	M	I) Introduction to Microsystem Technology I (Grundlagen der Mikrosystemtechnik	Lecture (V)	W	4	x	Korvink	https://www.imt.kit.edu
2142874	T-MACH-105183	B	M	II)	Lecture (V)	S	4	x	Korvink	https://www.imt.kit.edu
2190490	T-MACH-105466		M	Introduction to Neutron Cross Section Theory and Nuclear Data Generation	Lecture (V)	S	4	x	Dagan	https://www.ifrt.kit.edu
2301478	T-ETIT-100643		M	Laser Metrology	Lecture (V)	S	3		Eichhorn	https://www.ite.kit.edu
2581998	T-WIWI-107043	B	M	Liberalised Power Markets	Lecture (V)	W	3		W. Fichtner	https://www.iam.kit.edu/awp
2313747	T-ETIT-100644		M	Light and Display Engineering	Lecture/Tutorial (V/Ü)	W	4		Kling	https://www.lti.kit.edu
2118078	T-MACH-110771	B	M	Logistics and Supply Chain Management	Vorlesung (V)	S	9		Kai Furmans	https://www.ifl.kit.edu
2161224	T-MACH-105210	B	M	Machine Dynamics (Maschinendynamik)	Lecture/Tutorial (V/Ü)	S/W	5	x	Proppe	https://www.itm.kit.edu
2162220	T-MACH-105224	B	M	Machine Dynamics II	Lecture (V)	W	4	x	Proppe	https://www.itm.kit.edu
2400129	T-INFO-110630		M	Machine Learning - Basic Techniques (Maschinelles Lernen - Grundverfahren)	Lecture/Tutorial (V/Ü)	W	5		Neumann, Celik, Becker	https://www.informatik.kit.edu
2137308	T-MACH-105223	B	M	Machine Vision	Lecture (V)	W	8	x	C. Stiller, M. Lauer	www.itm.kit.edu
2137308	T-MACH-105223	B	M	Machine Vision	Lecture (V)	W	8	x	C. Stiller, M. Lauer	www.itm.kit.edu
2174586	T-MACH-110946		M	Materials Characterization	Lecture/Tutorial (V/Ü)	S	6	x	Jens Gibmeier	https://www.iam.kit.edu/wk
2154540	T-MACH-105295	B	M	Mathematical Methods in Fluid Mechanics	Lecture/Tutorial (V/Ü)	S	6	x	Magagnato, Gatti	https://www.istm.kit.edu
2117059	T-MACH-105189	B	M	Mathematical Models and Methods for Production Systems	Lecture (V)	W	6		Stoll, Furmans	www.imt.kit.edu
2141501	T-MACH-105782		M	Micro NMR Technology (Mikro NMR Technologie)	Lecture (V)	W	4	x	Korvink	https://www.imt.kit.edu
2142897	T-MACH-105557	B	M	Microenergy Technologies	Lecture (V)	S	4	x	M. Kohl	https://www.imt.kit.edu
2177020	T-MACH-110931	B	M	Microstructure-Property Relationships	Lecture/Tutorial (V/Ü)	W	6		Kirchlechner	https://www.iam.kit.edu/wbm
2142875	T-MACH-108383		M	Microsystem Simulation (Mikrosystem Simulation)	Lecture/Tutorial (V/Ü)	S	4	x	Korvink	https://www.imt.kit.edu
6221911	T-BGU-110842		M	Modelling of Turbulent Flows - RANS and LES	Vorlesung (V)	W	6	x	Markus Uhlmann	https://www.bgu.kit.edu
4020021	T-PHYS-102282		M	Nano Optics	Lecture (V)	W	8		Naber	https://www.physik.kit.edu
2181712	T-MACH-102167		M	Nanotribology and Mechanics (Nanotribologie und –mechanik)	Lecture/Tutorial (V/Ü)	S	4		Dienwiebel / Hölscher	https://www.imt.kit.edu
2162344	T-MACH-111026		M	Nonlinear Continuum Mechanics	Lecture/Tutorial (V/Ü)	S	4	x	Böhlke	https://www.itm.kit.edu
2189920	T-MACH-110331		M	Nuclear Fusion Technology (Fusionstechnologie)	Vorlesung (V)	W	4	x	Aurelian Florin Badea	https://www.iatf.kit.edu
2189921	T-MACH-110332		M	Nuclear Power and Reactor Technology (Kernkraft und Reaktortechnologie)	Vorlesung (V)	W	4	x	Aurelian Florin Badea	https://www.iatf.kit.edu
2170460	T-MACH-105402		M	Nuclear Power Plant Technology (Kernkraftwerkstechnik)	Lecture (V)	S	4	x	Cheng, Schulenberg	https://www.iket.kit.edu
6221702	T-BGU-106758		M	Numerical Fluid Mechanics I	Lecture/Tutorial (V/Ü)	S/W	6		Markus Uhlmann	https://www.bgu.kit.edu
2311629	T-ETIT-100676		M	Optical Engineering	Lecture/Tutorial (V/Ü)	W	4		Stork	https://www.itiv.kit.edu
2309460	T-ETIT-100639		M	Optical Transmitters and Receivers	Lecture/Tutorial (V/Ü)	W	6		Freude	https://www.etit.kit.edu
2309464	T-ETIT-101945		M	Optical Waveguides and Fibers	Lecture/Tutorial (V/Ü)	W	4		Koos	https://www.etit.kit.edu
2303183	T-ETIT-100685		M	Optimization of Dynamic Systems	Lecture/Tutorial (V/Ü)	W	5		Sören Hohmann	https://www.etit.kit.edu
2309486	T-ETIT-101907	B	M	Optoelectronic Components	Lecture/Tutorial (V/Ü)	S	4		Freude	https://www.etit.kit.edu
2313709	T-ETIT-100763		M	Plastic Electronics (Polymerelektronik)	Lecture (V)	W	3		Lemmer	https://www.lti.kit.edu
2173648	T-MACH-110818		M	Plasticity of Metals and Intermetallics	Lecture (V)	S	8		Kauffmann	https://www.iam.kit.edu/wk
2141853	T-MACH-102192		M	Polymers in MEMS A - Chemistry, Synthesis and Applications	Lecture (V)	W	4	x	Rapp	https://www.imt.kit.edu
2141854	T-MACH-102191		M	Polymers in MEMS B: Physics, Microstructuring and Applications	Lecture (V)	W	4	x	Worgull	https://www.imt.kit.edu
2142855	T-MACH-102200		M	Polymers in MEMS C - Biopolymers and Bioplastics	Lecture (V)	S	4	x	Worgull	https://www.imt.kit.edu
2113851	T-MACH-105162	B	M	Principles of Whole Vehicle Engineering I	Lecture (V)	W	2	x	Frech	https://www.fast.kit.edu/lff
2114860	T-MACH-105163	B	M	Principles of Whole Vehicle Engineering II	Lecture (V)/Blocklecture	S	2	x	Frech	https://www.fast.kit.edu/lff
2308405	T-ETIT-100729	B	M	Radar Systems Engineering	Lecture (V)	W	6		W. Wiesbeck	https://www.physik.kit.edu

2305272	T-ETIT-100825	B		Radiation Protection	Vorlesung (V)	S	3		Dr. Bastian Breustedt	https://www.ibt.kit.edu
2308503	T-ETIT-110359	B		Radio Frequency Electronics	Lecture/Tutorial (V/Ü)	W	5		Ahmet Cagri Ulusoy	https://www.ihe.kit.edu
2169550	T-MACH-107447	B	M	Reliability Engineering I	Lecture (V)	S	3	x	Konnov	https://www.informatik.kit.edu
2581012	T-WIWI-100806		M	Renewable Energy - Resources, Technology and Economics	Lecture (V)	W	4	x	R. McKenna, P. Jochem	https://www.iip.kit.edu
2183717	T-MACH-107660		M	Seminar "Material Simulation" ("Werkstoffsimulation")	Seminar (S)	S/W	8		Gumbsch / Nestler / Böhlke	https://www.iam.kit.edu/cms
2308432	T-ETIT-100736		M	Seminar Radar- and Communication Systems	Seminar (S)	W	4		Thomas Zwick	https://www.ihe.kit.edu
2400048	T-INFO-105144		M	Seminar: Humanoid Robots	Seminar (S)	W	3		Tamim Asfour	https://www.informatik.kit.edu
2170491	T-MACH-105445		M	Simulator Training Combined Cycle Power Plants (Simulator-Praktikum Gas- und Dampfkraftwerke)	Lab (P)	S	2	x	Schulenberg	https://www.iket.kit.edu
2312680	T-PHYS-104773		M	Single-Photon-Detectors	Lecture (V)	W	4		Ilin	https://www.etit.kit.edu
2313745	T-ETIT-100774		M	Solar Energy	Lecture (V)	W	6	x	Richards	https://www.lti.kit.edu
2189400	T-MACH-106493	B	M	Solar Thermal Energy Systems	Vorlesung (V)	W	4	x	Dagan, Stieglitz	https://www.iatf.kit.edu
4020011	T-PHYS-102279		M	Solid State Optics	Lecture (V)	W	8		Hetterich	https://www.physik.kit.edu
2194722	T-MACH-107667	B	M	Solid-state Reactions and Kinetics of Phase Transformations, Corrosion	Lecture/Tutorial (V/Ü)	S	6		Seifert	https://www.iam.kit.edu
2308448	T-ETIT-100810	B	M	Spaceborn Microwave Radiometry - Advanced Methods and Applications	Lecture (V)	S	3		Jirousek	https://www.itm.kit.edu
2312704	T-ETIT-110788	B	M	Superconductors for Energy Applications	Lecture /Tutorial(V/Ü)	S	5		F. Grilli	https://www.ims.kit.edu
2312682	T-ETIT-106970		M	Superconducting Materials for Energy Applications	Lecture /Tutorial(V/Ü)	S	4	x	F. Grilli	https://www.ims.kit.edu
2312717	T-ETIT-111096		M	Superconducting Materials Part I	Lecture /Tutorial(V/Ü)	W	6 ECTS, ab WS21/22		Holzappel	https://www.ims.kit.edu
2194729	T-MACH-111257		M	Superhard Thin Film Materials	Lecture (V)	S	4	x	Ulrich	https://www.iam.kit.edu/awp
2311605	T-ETIT-100675		M	Systems and Software Engineering	Lecture/Tutorial (V/Ü)	W	5		Eric Sax	https://www.itiv.kit.edu
2189904	T-MACH-105456		M	Ten lectures on turbulence	Lecture (V)	W	4	x	Otic	https://www.ifrt.kit.edu
4023151	T-PHYS-105960		M	The ABC of DFT	Lecture/Tutorial (V/Ü)	S	6		Wenzel	https://www.physik.kit.edu
4023011	T-PHYS-110303		M	Theoretical Quantum Optics	Lecture (V)	W	6		Rockstuhl	https://www.physik.kit.edu
2170476	T-MACH-105364	B	M	Thermal Turbo Machines 2 (Thermische Turbomaschinen 2)	Lecture/Tutorial (V/Ü)	S	6	x	H. Bauer	https://www.its.kit.edu
2169553	T-MACH-105363	B	M	Thermal Turbomachines 1 (Thermische Turbomaschinen 1)	Lecture/Tutorial (V/Ü)	W	6	x	H. Bauer	https://www.its.kit.edu
2178123	T-MACH-105554		M	Thin Film and Small Scale Mechanical Behavior	Lecture (V)	S	4	x	Gruber/ Weygand	https://www.iam.kit.edu/wbm
2312670	T-ETIT-106853		M	Thin films: technology, physics and applications I	Lecture/Tutorial (V/Ü)	W	4		Ilin	https://www.etit.kit.edu
2312671	T-ETIT-108121		M	Thin films: technology, physics and applications II	Lecture/Tutorial (V/Ü)	S	3		Ilin	https://www.etit.kit.edu
2114856	T-MACH-102206	B	M	Vehicle Ride Comfort & Acoustics I	Lecture (V)	S	4	x	Gauterin	https://www.fast.kit.edu/lff
2114857	T-MACH-105155	B	M	Vehicle Ride Comfort & Acoustics II	Lecture (V)	S	4	x	Gauterin	https://www.fast.kit.edu/lff
2121352	T-MACH-102123		M	Virtual Engineering 1	Lecture (V)	W	4	x	J. Ovtcharova	www.itm.kit.edu
2122378	T-MACH-102124		M	Virtual Engineering 2	Lecture (V)	S	4	x	J. Ovtcharova	www.itm.kit.edu
4040431	T-PHYS-108322	B		Wave and Quantum Physics	Lecture/Tutorial (V/Ü)	S	5		Gernot Goll	https://www.physik.kit.edu
2141007	T-MACH-109122		M	X-ray optics (Röntgenoptik)	Vorlesung (V)	S	4		Arndt Last	https://www.imt.kit.edu