

Course Name	Course of Study	Winter Semester	Summer Semester	ECTS	Institute	Lecturer	Contact Person	Remarks
Ab initio Phase Prediction of Solid State Materials	MSSCI	x	x	10		Prof. Richard Dronskowski	Prof. Richard Dronskowski	rotation of the semesters is irregular
Advanced Analytics	MSWIMB	x		5		Prof. Catherine Cleophas		
Advanced Automatic Speech Recognition	MSSCI		x	6		Prof. Hermann Ney	Prof. Hermann Ney	
Advanced Control Systems	MSAT	x		4	HIA	Prof. Steffen Leonhardt		
Advanced Molecular Dynamics Simulations	MSSCI	x		3		Prof. Roland Winkler	Prof. Roland Winkler	
Advanced Pattern Recognition Methods	MSSCI	x		6		Prof. Hermann Ney	Prof. Hermann Ney	
Advanced Software Engineering	MSAT, MSCAME, MSCES, MSAE	x		5	IMA-ZLW-IFU	Prof. Sabina Jeschke	Hamido Hourani	
Advanced Topics in Statistical Natural Language Processing	MSSCI	x	x	6		Prof. Hermann Ney	Prof. Hermann Ney	rotation of the semesters is irregular
Advanced Topics in Transport Theory	MSCES		x	5	MathCCES	Dr. Z. Cai		rotation of the semesters is irregular
Aero Thermal Design of Space Transportation Systems	MSSCI		x	4		Prof. Wolfgang Schröder	Schröder	
Alternative and Electrified Vehicle Propulsion Systems	MSAE		x	5	IKA, VKA	Prof. Lutz Eckstein, Prof. Stefan Pischinger	Raphael Hummel	
Applications of Laser Technology	MSAE		x	6	LLT	Prof. Reinhart Poprawe		
Applied Quantum Mechanics	MSSCI	x		6		Koch	Koch	
Applied Numerical Optimization	MSSCI	x		4		Mitsos	Mitsos	
Approval and Usability of Technical Devices	MSSCI	x		4		Radermacher	Radermacher / Lauer	
Approximation Theory and Data Analysis	MSSCI	x	x	9		Dahmen	Dahmen / Esser	rotation of the semesters is irregular
Artificial Organs I and Artificial Organs II	MSSCI	x		10		Mottaghy	Mottaghy	
Atomistic Simulation of Defects in Solids	MSSCI	x	x	10		Martin	Martin / De Souza	
Automatic Generation and Analysis of Algorithms / High-Performance Matrix Computations	MSSCI		x	6		Prof. Paolo Bientines	Prof. Paolo Bientines	
Automatic Speech Recognition	MSSCI	x		8		Prof. Hermann Ney	Prof. Hermann Ney	
Automotive Engineering I	MSAE	x		6	IKA	Prof. Lutz Eckstein	Gero Mimberg	
Automotive Engineering II	MSAE		x	6	IKA	Prof. Lutz Eckstein	Karthik Vemireddy	
Automotive Engineering III	MSAE	x		5	IKA	Prof. Lutz Eckstein	Philipp Themann	
Automotive Engineering Practical Course I-II	MSAE	x	x	6	IKA	Prof. Lutz Eckstein	Leif Hagebeuker	
Automotive Software Engineering	MSAT, MSCES, MSVT		x	4	i11	Prof. Stefan Kowalewski		
Automotive System Evaluation	MSAE		x	5	IKA	Prof. Maximilian Schwalm		
Basic Physics of Medical Imaging	MSSCI		x	6		Prof. Thomas Schmitz-Rode	Prof. Thomas Schmitz-Rode	
Basic Techniques in Computer Graphics	MSCES	x		6	i8	Prof. Leif Kobbelt		
Biological & Medical Fluid Mechanics I	MSSCI		x	3		Prof. Wolfgang Schröder	Schröder / Klaas	
Biological & Medical Fluid Mechanics II	MSSCI	x		3		Prof. Wolfgang Schröder	Schröder / Klaas	
Business Engineering	BSCES, BSMB, MSCES	x		3		Prof. Günther Schuh		
Calculus of Variations II	MSSCI		x	9		Bemelmans	Bemelmans / et al.	
Calculus of Variations I	MSSCI	x		9		Bemelmans	Bemelmans / et al.	
Cell Culture and Tissue Engineering	MSSCI		x	5		Jahnen-Dechent	Jahnen-Dechent	
Chemical Process Engineering	MSSCI		x	6		Wessling	Wessling	
Combinatorial Problems in Scientific Computing	MSCES, MSVT		x	4	i12	Prof. Uwe Naumann		rotation of the semesters is irregular
Combustion and Gasification of Pulverised Fuel in a Mixture of Oxygen and Carbon Dioxide	BSCES, MSeNT, BSMB, BSWI, MSVT	x		3		Toporov	Kneer	
Combustion Chemistry	MSCES, MSeNT, MSVT, MSCES, MSeNT, MSVT	x		4	LTT	Prof. Kai Leonhard		Chemie der Verbrennung
Combustion I	MSSCI		x	4		Prof. Heinz Pitsch	Prof. Heinz Pitsch / Hemshandra	

Combustion II	MSSCI	x		5		Prof. Heinz Pitsch	Prof. Heinz Pitsch / Hemshandra	
Compiler Construction	MSSCI	x		6		Noll	Noll	
Computational Chemistry for the investigation and/or prediction of the properties of Homogeneous Catalysts	MSSCI	x	x	10		Leitner	Leitner / Hölscher	
Computational Chemistry: Quantum Monte Carlo Methods	MSSCI	x	x	10		Lüchow	Lüchow	
Computational Contact Mechanics	MSALLGMB, MSCES, MSVT	x		5	AICES	Dr. Roger Sauer		
Computational Differentiation	MSCES, MSVT	x		6	i12	Prof. Uwe Naumann		Rechnergestütztes Differenzieren
Computational Fluid Dynamics I	MSCAME		x	4	AIA	Prof. Wolfgang Schröder	Dr. Matthias Meinke	
Computational Fluid Dynamics II	MSCAME	x		3	AIA	Prof. Wolfgang Schröder	Dr. Matthias Meinke	
Computational Magnetochemistry	MSSCI	x	x	10		Kögerler	Kögerler	
Computational Modeling of Membranes and Shells	MSALLGMB, MSCES, MSPT		x	5		Dr. Roger Sauer	Markert / Sauer	
Computational Molecular Biology	MSSCI		x	5		Carloni	Carloni / et al.	
Computational Nuclear Reactor Dynamics and Safety	MSSCI		x	4		Nabbi / Allelein	Nabbi / Allelein	
Computational Radiation Protection and Shielding	MSSCI	x		4		Nabbi / Allelein	Nabbi / Allelein	
Computational Systems Biotechnology	MSVT, MSWIMB, MSCES		x	7	FZ Jülich	Prof. Wolfgang Wiechert		
Computer Assisted Surgical Technology	MSSCI		x	6		Radermacher	Radermacher	
Computer Vision	MSCES, MSVT	x		6	i8	Prof. Bastian Leibe		
Computer-Aided Process Design	MSSCI		x	3		Mitsos	Mitsos	
Continuum Mechanics	MSALLGMB, MSCAME, MSCESm MSEuK, MSKuTT, MSVT, MSWIMB		x	6	KM	Prof. Mikhail Itskov	Khiem Ngoc Vu	
Control Engineering	MSAE, MSCAME	x		5	IRT	Prof. Dirk Abel	Matthias Hoppe	
Control Theory	MSSCI	x	x	9		Wigger	Wigger / Zerz	
Cryptography I	MSSCI		x	4		Mathar	Mathar	
Cryptography II	MSSCI	x		4		Mathar	Mathar	
Data Analysis and Visualization	MSSCI	x		4		Kobbelt	Kobbelt / Kühlen / Carloni	
Data Mining Algorithms	MSCES, MSVT	x		6	i9	Prof. Thomas Seidl		
Derivative Code Compilers	MSSCI		x	4		Naumann	Naumann / Varnik	
Dynamical Systems	MSSCI	?	?	9		Maier-Paape	Maier-Paape / Walcher	
Dynamics of Rigid Systems (previously Dynamics of Machines II)	MSAE		x	6	IGM	Prof. Burkhard Corves	David Schoenen/ Mathias Hüsing	
Electric Drives and Storage Systems	MSAE		x	5	IEM	Prof. Kay Hameyer		
Electronic Structure Theory I	MSSCI		x	8		Blügel	Blügel / Mavropoulos / Lezaic	
Energy Economics	MSSCI		x	4		Allelein / D. Müller	Allelein / D. Müller / et al.	
Energy from Biofuels	MSALLGMB, MSEnT, MSVT	x		3	ITV	Prof. Heinz Pitsch	Tobias Falkenstein, Alena Sudholdt	
Energy Systems Engineering	MSSCI	x		5		Prof. Andre Bardow	Bardow	
Entrepreneurial Strategy	MSMME	x		5	WIN	Prof. Malte Brettel		
Environmental Sustainability in Transport Engineering	MSAE	x		6	ISAC	Prof. Markus Oeser		
Factory Planning	MSPSE		x	6	WZL	Prof. Achim Kampker	Hanno Voet	
Failure of Structures and Structural Elements	MSALLGMB, MSCES, MSVT		x	4	IAM	Prof. Bernd Markert	Dr. Michael Ban	
Failure of Structures and Structural Elements	MSCAME		x	5	IAM	Prof. Bernd Markert	Dr. Michael Ban	
Fast Iterative Solvers	MSSCI		x	4		May	May	
Finance and Accounting	MSMME		x	5	Controlling	Prof. Peter Letmathe		
Finite Element and Volume Techniques	MSSCI	x	x	9		Noelle	Noelle / et al.	
Finite Element Methods in Lightweight Design	MSCAME		x	5	SLA	Prof. Hans-Günther Prof. Hans-Günther Reimerdes		
Finite Elements in Fluids	MSALLGMB, MSCES	x		4	CATS	Prof. Marek Behr		
Finite-Element-Technology	MSSCI		x	6		Reese	Reese	
Forward Error Correction and Digital Modulation	MSSCI		x	4		Vary	Vary / Schmalen	

Foundations of Finite Element Methods	MSAE, MSALLGMB, MSCAME, MSCES, MSFzTuT, MSVT, MSWIMB, BSCES	x		5	KM	Prof. Mikhail Itskov	Khiem Ngoc Vu	
Foundations of Numerical Methods in Mechanical Engineering	MSALLGMB, MSCAME, MSCE, MSVT	x		7	IAM	Prof. Bernd Markert	Dr. Michael Ban	
From Molecular to Continuum Physics II	MSCES, MSSCI		x	5		Ismail / Sauer / Svendsen	Ismail	
From Molecular to Continuum Physics I	MSSCI	x		6		Carloni	Carloni	
Fuel Cells: Today's Challenges in Modeling	MSSCI	x		4		Stolten	Lehnert	
Functions of Matrices with Applications	MSSCI		x	6		Prof. Paolo Bientines	Prof. Paolo Bientines / Di Napoli	
Fundamentals of Air Pollution Control	MSSCI	x		4		Modigell	Modigell	
Fundamentals of Fluid Power (Hydraulics and Pneumatics)	MSAE	x		6	IFAS	Prof. Hubertus Murrenhoff	Katharina Schrank, Christian von Grabe	
Fundamentals of Lightweight Design	MSSCI, MSCAME	x		4		Prof. Hans-Günther Reimerdes	Prof. Hans-Günther Reimerdes	
Gear and Transmission Technology	MSPSE	x		6	WZL	Prof. Christian Brecher	Dr. Markus Brumm	
Geometry Processing	MSCES, MSVT		x	6	i8	Prof. Leif Kobbelt		
Group Theory in Solid State Physics	MSSCI	x		4		Blügel	Blügel / Lezaic	
Heat and Mass Transfer	MSSCI	x		7		Kneer	Kneer / Habermehl	
High-Performance Matrix Computations	MSCES		x	8	AICES	Prof. Paolo Prof. Paolo Bientines		
Hydrogeophysics	MSSCI	x		3		van der Kruk	van der Kruk	
Hypersonic Flight: Computational Propulsion Design	MSALLGMB, MSCES, MSLRT		x	4	CATS	Prof. Marek Behr		
Industrial Design	MSEuK, MSWIMB	x		6		Prof. Jörg Feldhusen / Brezing	Feldhusen	
Industrial Engineering, Ergonomics and Work Organisation	MSAE, MSCAME	x		5	IAW	Prof. Christopher Schlick	Robert Stranzenbach	
Industrial Engineering, Ergonomics and Work Organisation	MSMME	x		6	IAW	Prof. Christopher Schlick	Robert Stranzenbach	
Industrial Environmental Engineering	MSSCI	x		5		Wessling	Wintgens	
Industrial Logistics	MSPSE		x	5	WZL	Prof. Günther Schuh		
Information Theory and Source Coding	MSSCI	x		2		Vary	Vary / Antweiler / Pawig	
Inline Spectroscopy for Chemical Processes	MSSCI	x		3		Liauw	Liauw	
Innovation Management	MSMME		x	5	TIM	Prof. Frank Piller		
Innovation Management	MSSCI		x	5	TIM	Prof. Frank Piller	Piller	
Internal Combustion Engines I	MSAE		x	6	VKA	Prof. Stefan Pischinger	Lehrebüro VKA	
Internal Combustion Engines II	MSAE	x		6	VKA	Prof. Stefan Pischinger	Lehrebüro VKA	
Introduction to Automatic Speech Recognition	MSCES, MSVT	x		6	i6	Prof. Hermann Prof. Hermann Ney		
Introduction to Embedded Software	MSSCI		x	6		Kowalewski	Kowalewski	
Introduction to Molecular Simulations	MSCES, MSEnT, MSVT		x	5	AVT	Prof. Ahmed Ismail		
Introduction to Polymer Physics	BSMB, MSALLGMB, MSEnT, MSKuTT, MSVT, MSCES	x		3	AVT	Prof. Ahmed Ismail		
Introduction to System Biology	MSSCI	x		3		Schuppert	Schuppert	
Introduction to Transport Theory	MSCES		x	5	MathCCES	Prof. Martin Frank		
iPodia - Principles and Practices of Global Innovation	MSPT, MSWIMB	x		5	WZL	Prof. Günther Schuh		
Isogeometric Analysis	MSALLGMB	x		6	CATS	Prof. Marek Behr		
Iterative Solvers	MSSCI		x	9		Reusken	Dahmen / Reusken / Jarausch	
Languages for Scientific Computing	MSSCI	x		6		Prof. Paolo Bientines	Prof. Paolo Bientines	
Machine Design Process	MSPSE	x		5	IKT	Prof. Jörg Feldhusen	Angelika Seves	
Machine Design Process and Practical Applications of CAET	MSCAME	x		7	IKT	Prof. Jörg Feldhusen	Angelika Seves	
Machine Tools	MSMME	x		5	WZL	Prof. Christian Brecher	Lydia Clermont-Kuckartz	
Machine Tools II	MSPSE		x	5	WZL	Prof. Christian Brecher	Brecher	
Manufacturing Technology I	MSMME	x		5	WZL	Prof. Fritz Klocke	Guido Wirtz	
Manufacturing Technology II	MSCAME		x	5	WZL	Prof. Fritz Klocke	Guido Wirtz	
Manufacturing Technology II	MSPSE		x	6	WZL	Prof. Fritz Klocke	Guido Wirtz	
Marketing Management	MSMME		x	5	TIME	Prof. Daniel Wentzel		
Mathematical Models in Science and Engineering (PDEs)	MSSCI		x	6		Torrilhon	Torrilhon	
Mechanics of Living Tissues	MSALLGMB, MSCES	x		3	KM	Prof. Mikhail Itskov	Khiem Ngoc Vu	

Mechanics of Materials	MSSCI	x		8		Reese	Reese	
Mechatronics and Control Techniques for Production Plants	MSCAME	x		6	WZL	Prof. Christian Brecher	Lydia Clermont-Kuckartz	
Mechatronics and Control Techniques for Production Plants	MSMME	x		5	WZL	Prof. Christian Brecher	Lydia Clermont-Kuckartz	
Medical Imaging I	MSALLGMB	x		4	HIA	Prof. Thomas Schmitz-Rode	Ioana Slabu	
Medical Imaging II	MSALLGMB		x	4	HIA	Prof. Thomas Schmitz-Rode	Ioana Slabu	
Medical Process Engineering	MSSCI		x	4		Wessling	Yüce	
Medical Technology I	MSSCI	x		6		Radermacher	Radermacher / de la Fuente / Lauer	
Membrane Processes	MSSCI	x		4		Wessling	Wessling	
Micro- and Macrosimulation of Casting Processes	MSCAME	x		4	GI	Prof. Andreas Bührig-Polaczek		
Mobility Research and Transportation Modeling	MSAE		x	6	ISB	Prof. Dirk Vallée		
Model Based Estimation Methods	MSSCI		x	5		Mhamdi	Mhamdi / Reusken	
Model Order Reduction Techniques	MSSCI		x	9		Grepl	Grepl / Veroy-Grepl	
Modeling flow and transport processes in terrestrial systems	MSSCI		x	4		Hendricks-Franssen	Hendricks-Franssen	
Modeling Technical Systems	MSSCI		x	6		Mitsos	Mitsos	
Modeling, Model Reduction and Simulation in Laser Processing I	MSPSE		x	5	NLD	Prof. Wolfgang Schulz		
Modelling and Simulation in Manufacturing Technology	MSCAME	x		5	WZL	Prof. Fritz Klocke	Dr.-Ing. Mustapha Abouridouane	
Modelling, Model Reduction and Simulation in Laser Processing	MSCAME		x	5	NLD	Prof. Wolfgang Schulz		
Molecular Thermodynamics	MSSCI	x		4		Leonhard	Leonhard	
Multibody Dynamics	MSCAME		x	5	IGM	Prof. Burkhard Corves	Frédéric Schöler	
Multibody Dynamics	MSPSE		x	6	IGM	Prof. Burkhard Corves	Frédéric Schöler	
Multicore Laboratory	MSSCI		x	4		Jannesari	Jannesari	
Multiphase Flow	MSSCI	x		6		Modigell	Modigell	
Nonlinear Finite Element Methods for Solids	MSSCI		x	5		Reese, Behr, Sauer	Reese, Behr, Sauer	
Nonlinear Functional Analysis	MSSCI	x		9		Bemelmans	Bemelmans / et al.	
Nonlinear Structural Mechanics	MSALLGMB, MSCAME, MSCES, MSVT		x	5	IAM	Prof. Marcus Stoffel	Dr. Michael Ban	
Numerical Analysis III	MSSCI	x		9		Dahmen / Reusken	Dahmen / Reusken / Noelle / Grasedyck	
Numerical Analysis IV	MSSCI		x	9		Dahmen / Reusken	Dahmen / Reusken / Noelle / Grasedyck	
Numerical Methods for Fluid-Structure-Interaction	MSSCI	x		4		Reinartz	Reinartz	
Numerical Methods for PDEs	MSSCI	x		8		Roller	Roller	
Object Oriented Software Construction	MSSCI	x		6		Lichter	Lichter	
Optimization A	MSSCI		x	9		Herty	Herty / Jongen	
Optimization B	MSSCI	x		9		Triesch	Triesch	
Optimization C	MSSCI		x	9		Herty	Herty / Jongen	
Parallel Computing in Simulation Science	MSSCI		x	6	CATS	Prof. Marek Behr	Behr	
Parallel Computing Methods in Computational Mechanics	MSALLGMB, MSCES		x	4	CATS	Prof. Marek Behr		
Parallel Programming I	MSSCI	x		6		Wolf	Wolf	
Parallel Programming II	MSSCI		x	6		Wolf	Wolf	
Partial Differential Equations II	MSSCI	x		9		Bemelmans	Bemelmans / et al.	
Pattern Recognition and Neural Networks	MSSCI	x		8		Prof. Hermann Ney	Prof. Hermann Ney	
Physiology	MSSCI	x		4		Mottaghy	Mottaghy	
Plasticity and fracture mechanics	MSSCI		x	6		Reese	Reese	
Polynomial Curves and Surfaces	MSCES, MSVT		x	6	i8	Prof. Leif Kobbelt		
Porous Media Mechanics	MSAE		x	6		Markert	Markert	
Practical Introduction to FEM-Software I	MSALLGMB, MSCES, MSEuK, MSKuTT, MSWIMB	x		5	KM	Prof. Mikhail Itskov	Uwe Navrath	
Practical Introduction to FEM-Software I	MSCAME	x		3	KM	Prof. Mikhail Itskov	Uwe Navrath	
Practical Introduction to FEM-Software II	MSALLGMB, MSCES, MSEuK, MSKuTT, MSWIMB		x	5	KM	Prof. Mikhail Itskov	Uwe Navrath	
Practical Introduction to FEM-Software II	MSCAME		x	3	KM	Prof. Mikhail Itskov	Uwe Navrath	
Process Chains for Replication of Complex Optical Components	MSPT		x	3	WZL	Prof. Christian Brecher	Guido Wirtz	

Process Control Engineering	MSSCI		x	4		Epple	Epple / Krüning	
Process Measurement	MSSCI	x		3		Epple	Epple / Yu	
Processes and Principles for Lightweight Design	MSAE	x		6	IKT, ILB	Prof. Jörg Feldhusen, Prof. Hans-Günther Prof. Hans-Günther Reimerdes	André Adomeit, Dr. Manuel Löwer	
Product Design in Chemical Engineering	MSSCI		x	4		Wessling	Wessling	
Production Management A	MSCAME	x		5	WZL	Prof. Günther Schuh	Margarete Stöwer	
Production Management B	MSMME		x	5	WZL	Prof. Günther Schuh	Margarete Stöwer	
Production Metrology	MSCAME		x	5	WZL	Prof. Robert Schmitt	Christopher Isenberg	
Quality Management	MSAE	x		6	WZL	Prof. Robert Schmitt	Verena Heinrichs	
Quality Management	MSCAME	x		5	WZL	Prof. Robert Schmitt	Verena Heinrichs	
Quantum Information	MSSCI		x	10		Terhal	Terhal	
Quantum Theory of Particles and Fields 1 - Quantum Mechanics	MSSCI		x	8		Meißner	Meißner / Nogga	
Quantum Theory of Particles and Fields 2 - Quantum Field Theory	MSSCI	x		8		Meißner	Meißner / Nogga	
Quantum Theory of Particles and Fields 3 - Effective Field Theory	MSSCI		x	8		Meißner	Meißner / Nogga	
Quantum-Chemical Modeling of Complex Intermetallics	MSSCI	x	x	10		Prof. Richard Dronskowski	Prof. Richard Dronskowski	
Quantum-Chemical Modelling of Small and Medium-Sized Molecules	MSSCI	x	x	10		Raabe	Raabe	
Rapid Control Prototyping	MSALLGMB, MSAT, MSCES, MSeNT, MSEuK, MSLRT, MSWIMB		x	5		Prof. Dirk Abel	Prof. Dirk Abel	
Rheology	MSSCI		x	6		Modigell	Modigell	
Seminar Parallel Programming	MSSCI	x		4		Wolf	Wolf	
Seminar: Topics in Automation, Compilers and Code-Generation	MSSCI		x	4		Prof. Paolo Bientines	Prof. Paolo Bientines	
Seminar: Topics in High-Performance and Scientific Computing	MSSCI	x		4		Prof. Paolo Bientines	Prof. Paolo Bientines	
Simulation Methods in Nuclear Engineering	MSSCI		x	4		Nabbi / Allelein	Nabbi / Allelein	
Simulation of Discrete Event Systems	MSCAME	x		5	IAW	Prof. Christopher Schlick	Robert Stranzenbach	
Simulation of Interactions in Molecular Crystals	MSSCI	x	x	10		Englert	Englert	
Simulation Techniques in Manufacturing Technology	MSCES, MSPT, MSWIMB	x		6	WZL	Prof. Fritz Klocke	Mustapha Abouridouane	
SiSc Laboratory	MSSCI	x	x	6		Wolf	Wolf / Carloni / Roller / Koch	
Software Quality Assurance	MSSCI	x		6		Lichter	Lichter	
Statistical Methods in Natural Language Processing	MSCES, MSVT		x	6	i6	Prof. Hermann Ney		
Statistical Natural Language Processing	MSSCI		x	8		Prof. Hermann Ney	Prof. Hermann Ney	
Statistics and Dynamics of Macromolecules and Biopolymers	MSSCI		x	3		Winkler	Winkler	
Structural Design of Vehicles	MSAE		x	5	IKA	Prof. Lutz Eckstein	Frederic Nuß	
Structural Design of Vehicles	MSCAME		x	4	IKA	Prof. Lutz Eckstein	Frederic Nuß	
Subdivision Curves and Surfaces	MSVT		x	6	i8	Prof. Leif Kobbelt		rotation of the semesters is irregular; language german/english alternating

Tensor Algebra and Tensor Analysis for Engineers I	MSALLGMB, MSCES, MSEuK, MSVT, MSWIMB	x		6	KM	Prof. Mikhail Itskov	Dmytro Pivovarov	
Tensor Algebra and Tensor Analysis for Engineers I	MSCAME	x		5	KM	Prof. Mikhail Itskov	Dmytro Pivovarov	
Tensor Algebra and Tensor Analysis for Engineers II	MSALLGMB, MSCES, MSVT		x	6	KM	Prof. Mikhail Itskov	Khiem Ngoc Vu	
Tensor Algebra and Tensor Analysis for Engineers II	MSCAME		x	5	KM	Prof. Mikhail Itskov	Khiem Ngoc Vu	
Theory of Magnetic Resonance	MSSCI	x		4		Appelt	Appelt	
Thermal Separation Processes	MSSCI		x	6		Pfennig	Pfennig	
Thermodynamics of Mixtures	MSSCI	x		4		Pfennig	Pfennig	
Transportation Design - Advanced Design and Presentation Techniques	MSFzTuT	x		2	IKA	Prof. James Kelly	Nico Depner	
Tribology	MSAE	x		6	IME	Prof. Georg Jacobs	Sebastian Neubert	
Tribology	MSPSE	x		5	IME	Prof. Georg Jacobs	Sebastian Neubert	
Turbulent Flows	MSSCI, MSCES, MSeNT, MSLRT, MSWIMB	x		4		Prof. Heinz Pitsch	Prof. Heinz Pitsch	
Uncertainty Quantification	MSSCI	x	x	5		Frank	Frank	
Vehicle Acoustics	MSAE		x	5	IKA	Prof. Jan Biermann	Alessandro Fortino	
Virtual Machine Tool 1)	PSE	x		5		Prof. Christian Brecher	Brecher	
Virtual Machine Tools - Modeling and Simulation	MSSCI	x		5		Prof. Christian Brecher	Brecher	
Virtual Reality	MSSCI	x		4		Kuhlen	Kuhlen	
Welding and Joining Technologies	MSCAME		x	5	ISF	Prof. Uwe Reisgen	Marc Essers	
Welding and Joining Technologies	MSMME		x	6	ISF	Prof. Uwe Reisgen	Marc Essers	