

Masterstudiengang Management and Engineering in Computer Aided Mechanical Engineering an der RWTH Aachen (International Academy)

MME-CAME

PO 2020

Compulsory Courses										
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS
Compulsory Courses RWTH (Engineering)										
Leonhardt / Misgeld	Misgeld	Advanced Control Systems	4	2	1	3	w	6010486	20	14
Markert	Markert, Koc	Computational Intelligence in Engineering	5	2	1	3	w	4021493		
Schmitt	Schmitt	Quality Management	6	2	2	4	w	4011453		
Brettel	Brettel	Management and Engineering Perspectives	5	2	2	4	w	4022679		
Compulsory Courses RWTH (Management)										
Breuer	Breuer	Financial Management	5	2	2	4	w	8022784	30	26
Habring	Grund	Human Resource Management	5	2	2	4	w	8018762		
N.N.	N.N.	International Business	5	3	1	4	w/s	4011505		
Letmathe	Letmathe	Finance and Accounting	5	3	2	5	s	8015422		
Wentzel	Wentzel	Marketing Management	5	3	2	5	s	8015423		
Salge	Salge	Strategic Management	5	2	2	4	w	8016481		
General										
N.N.	N.N.	Language Course	2	1	1	2	sw	4023298	2	2
Master thesis										
		Master Thesis	30		-	-	sw		30	

Track: Digital Engineering

Compulsory Courses										
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS
Kohlschein	Kohlschein	Artificial Intelligence and Data Analytics for Engineers	5	2	1	3	s	4018567	25	**
Kowalewski	Kowalewski	Embedded Systems	5	3	3	6	s	1215690		
Schuh	Dannapfel	International Factory Planning	5	2	2	4	s	4011481		
Bergs	Bergs	Manufacturing Technology II	5	2	2	4	s	4011447		
Schuh	Schuh	Production Management A	5	2	2	4	w	4011477		
Elective Courses										
Schleifenbaum	Schleifenbaum	Additive Manufacturing: Technologies and Processes	6	2	2	4	w	4017421	13*	**
Itskov	Itskov	Advanced Finite Element Methods for Engineers	5	2	2	4	w	4013866		
Stoffel	Stoffel	Artificial Neural Networks in Structural Mechanics	6	2	2	4	w	4021387		
Abel	Abel	Linear Control Systems	3	2	2	4	w	4011476		
Mertens / Lang	Mertens / Lang	Digital Work: Challenges and Solutions	5	2	2	4	s	8016720		
Schröder	Schröder	Fundamentals of Lightweight Design	5	2	1	3	w	4011452		
Markert	Markert	Intelligent Monitoring of Engineering Systems	5	2	1	3	s	4021494		
Häfner	Häfner / Biele	Laser Applications	6	2	2	4	w	4022685		
Brecher	Brecher	Machine Tools	5	2	2	4	w	4011460		
Simon	Simon	Mechanics of Engineering Materials	5	2	1	3	s	4011448		
Brecher	Brecher	Mechatronics and Control Techniques for Production Plants	6	2	2	4	w	4011451		
Corves	Corves	Multibody Dynamics	5	2	2	4	s	4011462		
Itskov	Itskov	Tensor Algebra and Tensor Analysis for Engineers	6	2	2	4	w	4012288		

* Maximum of 8 CP in the Wintersemester

** The total amount of weekly contact hours (SWS) depends on the modules selected.

Track: Modelling and Simulation Engineering

Compulsory Courses										
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS
Lütticke	Lütticke	Advanced Software Engineering	5	2	2	4	w	4011468	25	17
Itskov	Itskov	Continuum Mechanics	6	2	2	4	s	4013360		
Markert	Bamer	Failure of Structures and Structural Elements	5	2	1	3	s	4011486		
Markert	Markert	Intelligent Monitoring of Engineering Systems	5	2	1	3	s	4021494		
Schmidt	Schmidt	Nonlinear Structural Mechanics	5	2	1	3	s	4012290		
Elective Courses										
Schleifenbaum	Schleifenbaum	Additive Manufacturing: Technologies and Processes	6	2	2	4	w	4017421	13*	**
Itskov	Itskov	Advanced Finite Element Methods for Engineers	5	2	2	4	w	4013866		
Stoffel	Stoffel	Artificial Neural Networks in Structural Mechanics	6	2	2	4	w	4021387		
Abel	Abel	Linear Control Systems	3	2	2	4	w	4011476		
Mertens / Lang	Mertens / Lang	Digital Work: Challenges and Solutions	5	2	2	4	s	8016720		
Schröder	Schröder	Fundamentals of Lightweight Design	5	2	1	3	w	4011452		
Brecher	Brecher	Machine Tools	5	2	2	4	w	4011460		
Simon	Simon	Mechanics of Engineering Materials	5	2	1	3	s	4011448		
Brecher	Brecher	Mechatronics and Control Techniques for Production Plants	6	2	2	4	w	4011451		
Schulz	Schulz	Modeling, Model Reduction and Simulation in Laser Processing	5	2	2	4	w/s	4013864		
Corves	Corves	Multibody Dynamics	5	2	2	4	s	4011462		
Ban	Ban	Numerical Methods in Mechanical Engineering	7	3	2	5	w	4011449		
Nitsch	Mertens	Simulation of Discrete Event Systems	5	2	2	4	s	4011437		
Itskov	Itskov	Tensor Algebra and Tensor Analysis for Engineers	6	2	2	4	w	4012288		

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