

## Masterstudiengang Management and Engineering in Computer Aided Mechanical Engineering an der RWTH Aachen (IntAc)

### MME-CAME

PO 2020  
01.09.2021

Compulsory Courses										
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS
<b>Compulsory Courses RWTH (Engineering)</b>										
Leonhardt / Misgeld	Leonhardt / Misgeld	Advanced Control Systems	4	2	1	3	w	6010486	20	14
Markert	Markert	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		
<b>Compulsory Courses RWTH (Management)</b>										
Breuer	Breuer	Financial Management	5	2	2	4	w	8024262	30	25
Jones	Jones	Human Resource Management	5	2	2	4	w	8018762		
N.N.	N.N.	International Business	5	2	2	4	w	4011505		
Letmathe	Letmathe	Management Accounting	5	2	2	4	w	8022783		
Wentzel	Wentzel	Marketing Management	5	3	2	5	s	8015423		
N.N.	N.N.	Strategic Management	5	2	2	4	w	8016481		
<b>General</b>										
N.N.	N.N.	Language Course	2	1	1	2	sw	4023298	2	2
<b>Master thesis</b>										
		Master Thesis	30	-	-	-	sw	0	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	1	4	s	1215690		
Schuh	Dannapfel	International Factory Planning	5	2	2	4	s	4011481		
Klocke	Klocke	Manufacturing Technology II	5	2	2	4	s	4011447		
Schuh	Schuh	Production Management A	5	2	2	4	w	4011477		
<b>Elective Courses</b>										
Schleifenbaum	Schleifenbaum	Additive Fertigungsverfahren: Technologien und Prozesse	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	Control Engineering	5	2	1	3	w	4011476		
N.N.	N.N.	Digital Work: Challenges and Solutions	5	2	2	4	s	8016720		
Schröder	Schröder	Fundamentals of Lightweight Design	5	2	2	4	w	4011452		
Markert	Markert	Intelligent Monitoring of Engineering Systems	5	2	1	3	s	4021494		
N.N.	N.N.	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 I	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
Jeschke, S.	Jeschke, S.	Advanced Software Engineering	5	2	2	4	w	4011468	25	17
Itskov	Itskov / Schröder	Continuum Mechanics	6	2	2	4	s	4013360		
Hachemi	Hachemi	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	Control Engineering	5	2	1	3	w	4011476		
N.N.	N.N.	Digital Work: Challenges and Solutions	5	2	2	4	s	8016720		
Schröder	Schröder	Fundamentals of Lightweight Design	5	2	2	4	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	Modelling, Model Reduction and Simulation in Laser Processing II	5	2	2	4	w	4014454		
Corves	Corves	Multibody Dynamics	5	2	2	4	s	4011462		
Ban	Ban	Numerical Methods in Mechanical Engineering	7	3	2	5	w	4011449		
N.N.	N.N.	Simulation of Discrete Event Systems	5	2	2	4	s	4011437		
Itskov	Itskov	Tensor Algebra and Tensor Analysis for Engineers I	6	2	2	4	w	4012288		

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