

Masterstudiengang Textile Engineering an der RWTH Aachen (International Academy)
PO 2019

Compulsory Courses										
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS
Compulsory - Alle										
Gries	Gries	Composites	6	2	2	4	s	4011480	32	29
Abel	Abel	Linear Control Systems	4	2	2	4	w	4011476		
Gries	Gries	High Performance Fibres	6	2	2	4	s	4011478		
Schröder	Schröder	Fluid Dynamics	5	2	2	4	w*/s	4011479		
N.N.	N.N.	Language Course I	2	1	1	2	w	4021266		
N.N.	N.N.	Language Course II	2	1	1	2	s	4021267		
N.N.	N.N.	Language Course III	2	2	2	4	w	4021268		
Jacobs	Jacobs	Machine Design Process	5	2	3	5	w	4012285		
Compulsory - Research										
Gries	Gries	First Research Project	8	0	0	0	w	4014346	24	0
Gries	Gries	Second Research Project	16	0	0	0	s	4015760		
Compulsory - Coursework										
Itskov	Itskov	Advanced Finite Element Methods for Engineers	5	2	2	4	w	4013866	18	12
Brecher / Bergs	Brimmers	Gear and Transmission Technology	6	2	2	4	w	4011427		
N.N.	N.N.	Minor Research Project	7	2	2	4	w	4014345		
Master Thesis										
		Master Thesis	30					4014496	30	

Elective Courses - Coursework										
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS
Stoffel	Stoffel	Artificial Neural Networks in Structural Mechanics	6	2	2	4	w	4021387	22 - 34	**
Schröder	Meinke	Computational Fluid Dynamics I	4	2	1	3	s	4012278		
Markert	Markert, Koeppel, Hes	Computational Intelligence in Engineering	5	2	1	3	w	4021493		
Schuh	Dannapfel	International Factory Planning	6	2	2	4	s	4011481		
Gries	Gries	Faserstoffe I	3	2	0	2	w	4010859		
Gries	Gries	Faserstoffe II	3	2	0	2	s	4013363		
Schröder	Schröder	Fundamentals of Lightweight Design	5	2	1	3	w	4011452		
Schuh	Schuh / Stich	Industrial Logistics	5	2	1	3	s	4011473		
Markert	Markert	Intelligent Monitoring of Engineering Systems	5	2	1	3	s	4021494		
Brettel	Brettel	Management and Engineering Perspectives	5	2	2	4	w	4022679		
Hopmann / Veit	Hopmann / Veit	Modellbildung und Simulation in der Textiltechnik	6	2	2	4	s	4011485		
Ban	Ban	Numerical Methods in Mechanical Engineering	7	3	2	5	w	4011449		
Itskov	Itskov	Practical Introduction to FEM-Software I	5	1	2	3	w	4012292		
Schmitt	Schmitt	Quality Management	6	2	2	4	w	4011453		
Markert	Markert / Heider	Reliable Simulation in the Mechanics of Materials and Structures	6	2	2	4	s	4011496		
Gries	Veit	Selected Topics in Textile Technology	6	4	0	4	w	4015718		
Gries / Veit	Gries / Veit	Technische Textilien	6	2	2	4	s	4012458		
Gries	Gries	Textiltechnik II	6	2	2	4	s	4011484		
Gries	Gries	Textiltechnik III	6	2	2	4	w	4014290		

*Students have to select textile related elective courses of at least 12 CP (coloured ones)

Elective Courses - Research										
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS
Stoffel	Stoffel	Artificial Neural Networks in Structural Mechanics	6	2	2	4	w	4021387	18 - 26	
Schröder	Meinke	Computational Fluid Dynamics I	4	2	1	3	s	4012278		
Markert	Markert, Koeppel, Hes	Computational Intelligence in Engineering	5	2	1	3	w	4021493		
Markert	Bamer	Failure of Structures and Structural Elements	5	2	1	3	s	4011486		
Gries	Gries	Faserstoffe II	3	2	0	2	s	4013363		
Schröder	Schröder	Finite Element Methods in Lightweight Design	5	2	1	3	s	4011464		
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		
Brettel	Brettel	Management and Engineering Perspectives	5	2	2	4	w	4022679		
Hopmann / Veit	Hopmann / Veit	Modellbildung und Simulation in der Textiltechnik	6	2	2	4	s	4011485		
Schmidt	Schmidt	Nonlinear Structural Mechanics	5	2	1	3	s	4012290		
Ban	Ban	Numerical Methods in Mechanical Engineering	7	3	2	5	w	4011449		
Itskov	Itskov	Practical Introduction to FEM-Software I	5	1	2	3	w	4012292		
Schmitt	Schmitt	Production Metrology	5	2	2	4	s	4011467		
Schmitt	Schmitt	Quality Management	6	2	2	4	w	4011453		
Gries	Veit	Selected Topics in Textile Technology	6	4	0	4	w	4015718		
Gries / Veit	Gries / Veit	Technische Textilien	6	2	2	4	s	4012458		
Gries	Gries	Textiltechnik II	6	2	2	4	s	4011484		

*Students have to select at least one textile related elective course (coloured ones)