

Master of Science (M.Sc.) in Textile Engineering

Master with a focus on coursework	WS			SS			WS		
	L	E	CP	L	E	CP	L	E	CP
Control Engineering	2	2	4						
Machine Design Process	2	2	5						
Gear and Transmission Technology	2	2	6						
Finite Element Methods for Engineers	2	2	5						
Quality Management	2	2	6						
Minor Research Project			5						
Fluid Dynamics				2	2	5			
High Performance Fibres				2	2	6			
Composites				2	2	6			
Engineering Electives				22					
Master Thesis									20
Sum of Workload	31 CP			27-30 CP			29-32 CP		

Master with a focus on research	WS			SS			WS		
	L	E	CP	L	E	CP	L	E	CP
Control Engineering	2	2	4						
Machine Design Process	2	2	5						
Quality Management	2	2	6						
First Research Project			14						
Fluid Dynamics				2	2	5			
High Performance Fibres				2	2	6			
Composites				2	2	6			
Second Research Project						14			
Engineering Electives							10		
Master Thesis									20
Sum of Workload	29 CP			31 CP			30 CP		

Coursework:						
Students have to select textile related elective courses of at least <u>12 CP</u> (coloured ones)						
Electives - Textile Engineering - coursework						
	Lang.	L	E	CP	Term	
Faserstoffe 1 (natural fibres)	G	2	0	3		SS
Textiltechnik 3 (fabrics, finishing)	G	2	2	6		SS
Innovation Management	E	2	2	5		SS
Computational Fluid Dynamics I	E	2	1	4		SS
Production Metrology	E	2	2	5		SS
Factory Planning	E	2	2	6		SS
Failure of Structures and Structural Elements	E	2	1	5		SS
Ausgewählte Themen der Textiltechnik	G	2	2	6		SS
Finite Element Methods in Lightweight Design	E	2	1	5		SS
Nonlinear Structural Mechanics	E	2	2	5		SS
Numerical Methods in Mech. Eng.	E	3	2	7	WS	
Computational Fluid Dynamics II	E	1	1	3	WS	
Technische Textilien (technical textiles)	G	2	2	6	WS	
Faserstoffe 2 (synthetic fibres)	G	2	0	3	WS	
Textiltechnik 2 (yarns)	G	2	2	6	WS	
Modellbildung und Simulation in der Textiltechnik	G	2	2	6	WS	
Ausgewählte Themen der Textiltechnik	G	2	2	6	WS	
Fundamentals of Lightweight Design	E	2	1	4	WS	

Research:						
Students have to select at least <u>one</u> textile related elective course (coloured ones)						
Electives - Textile Engineering - research						
	Lang.	L	E	CP	Term	
Practical Introduction to FEM Software I	E	1	2	3	WS	
Numerical Methods in Mech. Eng.	E	3	2	7	WS	
Computational Fluid Dynamics II	E	1	1	3	WS	
Technische Textilien (technical textiles)	G	2	2	6	WS	
Faserstoffe 2 (synthetic fibres)	G	2	0	3	WS	
Textiltechnik 2 (yarns)	G	2	2	6	WS	
Ausgewählte Themen der Textiltechnik	G	2	2	6	WS	
Modellbildung und Simulation in der Textiltechnik	G	2	2	6	WS	
Fundamentals of Lightweight Design	E	2	1	4	WS	