

M.Sc. in Textile Engineering – Track: Research – Suggested Curriculum Overview

1 Semester WS	Compulsory Courses			Engineering Elective Courses	
	Control Engineering	Machine Design Process	Fluid Dynamics	Elective Courses	
	Language Courses			Choose from these electives <ul style="list-style-type: none"> • Practical Introduction to FEM Software I • Quality Management • Numerical Methods in Mech. Eng. • Fundamentals of Lightweight Design • Artificial Neural Networks in Structural Mechanics • Computational Intelligence in Engineering 	
	Language Course (1)				
2 Semester SS	Compulsory Courses			Engineering Elective Courses	
	High Performance Fibres	Composites		Elective Courses	
	Language Courses			Choose from these electives <ul style="list-style-type: none"> • Technische Textilien (technical textiles) • Faserstoffe 2 (synthetic fibres) • Textiltechnik 2 (yarns) • Modellbildung und Simulation in der Kunststoff- und Textiltechnik • Ausgewählte Themen der Textiltechnik • Intelligent Monitoring of Engineering Systems • Computational Fluid Dynamics I • Production Metrology • Failure of Structures and Structural Elements • Finite Element Methods in Lightweight Design • Nonlinear Structural Mechanics 	
	Language Course (2)				
	Minor Research Project				
3 Semester WS	Language Courses			Research Project	
	Language Course (3)			Research Project	
	Internship (12 weeks)				
4 Semester SS	Master Thesis (six months)				