

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

1 Semester WS	Compulsory Courses			Compulsory Elective Courses		
	Control Engineering	Machine Design Process	Fluid Dynamics		Gear and Transmission Technology	Advanced Finite Element Methods
	Language Courses			Engineering Elective Courses		
	Language Course (1)			Elective Courses		
				Choose from these electives <ul style="list-style-type: none"> • Faserstoffe 1 (natural fibres) • Textiltechnik 3 (fabrics, finishing) • Ausgewählte Themen der Textiltechnik • 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 		
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"> • International Factory Planning • Intelligent Monitoring of Engineering Systems • Reliable Simulation in the Mechanics of Materials and Structures • Computational Fluid Dynamics I • Technische Textilien (technical textiles) • Faserstoffe 2 (synthetic fibres) • Textiltechnik 2 (yarns) • Modellbildung und Simulation in der Kunststoff- und Textiltechnik • Ausgewählte Themen der Textiltechnik • Industrial Logistics 		
	Language Course (2)					
	Minor Research Project					
3 Semester WS	Language Courses			Engineering Elective Courses		
	Language Course (3)			Elective Courses		
				Choose from these electives <ul style="list-style-type: none"> • Faserstoffe 1 (natural fibres) • Textiltechnik 3 (fabrics, finishing) • Ausgewählte Themen der Textiltechnik • 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 		
Internship (12 weeks)						
4 Semester SS	Master Thesis (six months)					