

Master of Science in Wood Technology

Module Schedule, Part-time studies

Semester	Credits															Credits														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 and 3 Autumn	Wood-Based Panels – Theory and Laboratory mandatory for MPI Markets, production technology, adhesives, material emissions, simulation					Leadership and Communication Leadership, personal development, self-management, international project management					Elective - Bio-based Polymers and Adhesives - Ecodesign of Products and Buildings - Modelling Software - Building Information Modelling - Term Paper - Excursion - Advanced Wood Processing - Modules of the Master of Science in Engineering - Continuing Education courses at the BFH - Language					Fiber-Reinforced Composites Bio-based hybrid materials, bionics, material characterization					Scientific Methods Scientific methodologies, statistics, global environmental management					Elective as on the left side				
	Finite Element Modelling mandatory for CTS Plate theory, second order calculation, limit state analysis, advanced mathematics																													
2 and 4 Spring	Project 1 MPI: Digital Manufacturing in the Wood Industry															Project 2 MPI: Innovation Management														
	Digital Manufacturing Technologies Data management, data bases, web technology, data security, Industry 4.0					Case Study					Processes and Controlling Process management, simulation, economic efficiency, controlling					Innovation Strategy Management of innovation processes, innovation management tools, new product development					Case Study					Finance and Legal Financial management, taxes, intellectual property				
	Project 1 CTS: Modelling of Complex Timber Structures															Project 2 CTS: Multi-Storey Timber and Hybrid Structures														
	Data Management for Timber Engineers					Case Study					Free Form and Shell Structures Load carrying behaviour, geometry and digitalisation, modelling, connections					Assessment and Retrofitting Methods for assessment, maintenance and strengthening, remodeling, densification					Case Study					Earthquake and Design Concepts for multi-storey timber buildings, structural dynamics, earthquake design				
5 and 6	Master's Thesis 30 credits																													

- Core Modules mandatory
- Core Modules elective
- Specialisation Management of Processes and Innovation MPI
- Specialisation Complex Timber Structures CTS
- Master's Thesis