

Department	05 Technical Systems, Processes and Communication
Course title	Stock Preparation
Course number	
Hours per week (SWS)	4
Number of ECTS credits	5
Course objective	<ul style="list-style-type: none">• materials and processes in the field of stock preparation;• able to independently analyze and design stock preparation systems, work out suggestions for improvement, and explain the correlation between the properties of paper, the steps in the manufacturing process, and the raw materials used;• able to select suitable stock preparation equipment, including the choice of raw materials for different qualities of paper and board.
Prerequisites	
Recommended reading	Current publications by machine manufacturers, paper suppliers, paper manufacturers, and research institutes. G. A. Smook, Handbook for Pulp & Paper Technologists, Joint Textbook Committee of the Paper Industry – TAPPI and CPPA
Teaching methods	e.g. Lecture, seminar instruction, exercises, project, work, excursion, lab experiments
Assessment methods	Written examination + assignments
Language of instruction	English
Name of lecturer	Dr.-Ing. Sebastian Porkert
Email	
Link	
Course content	<ul style="list-style-type: none">• General goals of process guiding• Reading and understanding of piping and instrumentation diagrams• Principles of stock pumping• Selection and dimensioning of auxiliaries• Aims of, and processes used in stock preparation systems• Physical and chemical criteria for the selection of fibers for board and paper production• Recycled fibre pulp preparation processes• Enhanced technical aspects of stock preparation processes• Energetic aspects of stock preparation systems• Design of stock preparation systems• Influencing the characteristics of paper and board through the equipment and process guiding in stock preparation systems
Remarks	