



Universität Stuttgart

Institute of Construction Materials

Materials Testing Institute (MPA)

Wood Physics

Lecture plan

Winter semester 2022/23

M.Sc. Civil Engineering

M.Sc. Real Estate Engineering and Management

M.Sc. Computational Mechanics of Materials and Structures

M.Sc. Integrative Technologies & Architectural Design Research

Contact person:

Jun.-Prof. Dr. Philippe Grönquist
Pfaffenwaldring 4b, 70569 Stuttgart
philippe.groenquist@iwb.uni-stuttgart.de

Lecture day: Thursday
Time: 15:45–17:15 pm
Location: PWR 4 – Seminar room 1st floor
Period: 20.10.2022–09.02.2023

| Date | Agenda | Lecturer |
|------------|---|--------------|
| 20.10.2022 | The resource wood | P. Grönquist |
| 27.10.2022 | Wood structure and anatomy I | P. Grönquist |
| 03.10.2022 | No lecture (excursion) | - |
| 10.11.2022 | Wood structure and anatomy II | P. Grönquist |
| 17.11.2022 | Tree biomechanics | P. Grönquist |
| 24.11.2022 | Wood density | P. Grönquist |
| 01.12.2022 | Wood-water interaction I: Wood moisture | P. Grönquist |
| 08.12.2022 | Wood-water interaction II: Swelling and shrinkage | P. Grönquist |
| 15.12.2022 | Thermal and electrical properties | P. Grönquist |
| 22.12.2022 | No lecture (pause) | - |
| 12.01.2023 | Mechanics I: Elasticity | P. Grönquist |
| 19.01.2023 | Mechanics II: Strength | P. Grönquist |
| 26.01.2023 | Mechanics III: Rheological behavior | P. Grönquist |
| 02.02.2023 | Mechanics IV: Micromechanics | P. Grönquist |
| 09.02.2023 | Recap and exam preparation | P. Grönquist |