Course: Wooden Structures

Lectures: Physical and mechanical properties of wood. The rules for determining the strength of materials. Classification of wood strength. Classes of the use of structures. Material coefficients and type of use. Dimensioning of wooden structures with the limit states method. Ultimate limit states. Limit states of use. Impact of wood rheology on dimensioning. Basics of designing construction elements. Axial stretching, axial compression, bending, complex strength cases. Joints in wooden structures: carpentry, nail, screw, tile and glue joints. Complex wooden structures. Elements for mechanical joints - wood, wood and wood-based panels. Wooden I-beams

Project: Designing elements of wooden structures: wooden ceiling, flat roof, glued girder and roof trus.

Responsible person: Gerard Bryś Ph.D. Eng

More info:

https://webapps.uz.zgora.pl/syl/index.php?/course/showCourseDetails/1225438