

FOMT 1.4 B: Forest Resources Assessment

Contents:

Instruments and methods for tree mensuration, establishment and analysis of experimental plots in forests and short rotation plantations. Modelling and simulation of forest growth, timber yield and biomass. Biometrical methods with exemplary data sets. Methods of remote sensing and geographic information systems (GIS); data survey, using aeroplane and satellite aided sensor systems, as well as analysis methods based on the interpretation of aerial photographs and on digital satellite image classification, including their integration in geographic information systems, Computer-related exercises.

Qualification goals:

The students know the functioning, handling and use of important tree measuring instruments, as well as the methodology for assessing and analysing forest growth and are familiar with respective modelling. They are capable of operationally utilizing analogous and digital remote sensing data, based on modern methods of analyses of aerial photographs and satellite images, as well as to apply image data and multi-thematic geo-data to the monitoring of land use and land use change.