

## FOMT 1.8A: Natural Forest Silviculture and Biodiversity Conservation in the Tropics

### Contents:

Ecosystem concept as an auxiliary for silviculture and for biodiversity conservation. Natural distribution and classification of forest and plant formations, as well as fauna in the tropics, as well as methods for their assessment. Important silvicultural systems with their methods and techniques in moist and dry forests. Population ecology with its natural regulation mechanisms, relationships between plants, herbivores, as well as between herbivores and their antagonists in the context of biodiversity and protection.

### Qualification goals:

The students are able to classify, analyse and evaluate tropical forest ecosystems and to conceptualize appropriate silvicultural systems, according to the local conditions. They can analyse the plant-herbivore-antagonist relationships and assess biotic risks and regulation possibilities for natural forest management and thus the protection of biodiversity, as well as integrate management strategies. The students are able to design strategies for sustainable production and the protection of natural forest ecosystems.