

The main learning outcomes of the different study tracks of the second academic year.

YEAR 2	
Study tracks	<i>After completing the core courses of the study track in question, students:</i>
Track 1: Decision support systems for resource management	<ul style="list-style-type: none"> 1 a. know how to establish and to use forest resource information services; 1 b. have advanced knowledge about different forest governance and decision support systems; 1 c. are able to compare various utilities used in forest resource management; 1 d. have advanced knowledge of forest planning practices and operations used for resource management.
Track 2: Resource management for ecosystem services	<ul style="list-style-type: none"> 2 a. have advanced knowledge of current theories and practices used in resource management; 2 b. are able to understand how to manage different resources for ecosystem services; 2 c. are able to model ecological and social processes used for ecosystem services; 2 d. have advanced knowledge on carbon dynamics and possibilities for management of carbon cycle in forest ecosystems.
Track 3: Spatial and ecological modelling	<ul style="list-style-type: none"> 3 a. understand the theory behind the analyses related to spatial and ecological modelling; 3 b. have obtained the ability to routinely use complex spatial analyses and ecological models eg. for natural hazard and risk management; 3 c. understand different aspects related to spatial data management used in forestry; 3 d. have advanced knowledge of major concepts and approaches for spatial and ecological modelling; 3 e. know a variety of applications used in spatial and ecological modelling.
Track 4: Resource economics and policy	<ul style="list-style-type: none"> 4 a. are able to understand advanced economics of multiple-use forestry; 4 b. have the ability to use monetary and multi-criteria methods for evaluating forest management options; 4 c. have gained advanced knowledge of applied forest bioeconomy and new biomaterials; 4 d. have a good overview of the forest governance and environmental policy aspects in Europe.
Track 5: Silviculture and engineering	<ul style="list-style-type: none"> 5 a. have become familiar with biological processes in forest ecosystems; 5 b. have advanced knowledge of silviculture and forest management practices in different parts of Europe; 5 c. are able to understand how the management and use of forests affect different ecosystem services; 5 d. are able to analyse different forest ecosystem management concepts.
Track +: Global perspective (a standard track 1, 2, 3 or 4 in Europe + additional studies with global Associated Partner HEIs in Canada, China, or Brazil)	<ul style="list-style-type: none"> 6 a. have advanced knowledge of differences in global forest ecosystems; 6 b. have become familiar with various forestry practices and operations used in different climatic zones outside Europe; 6 c. are able to identify various production goals that can be found in global forestry; 6 d. have gained knowledge of current trends in global forest governance and environmental policy.