

Syllabus

Kursbeschreibung

Titel der Lehrveranstaltung	Holzanatomie und produktive Forstwirtschaft
Code der Lehrveranstaltung	42607
Zusätzlicher Titel der Lehrveranstaltung	
Wissenschaftlich-disziplinärer Bereich	AGRI-03/B
Sprache	Italienisch
Studiengang	Berufsbildender Bachelor in Holztechnik
Andere Studiengänge (gem. Lehrveranstaltung)	
Dozenten/Dozentinnen	Prof. Enrico Tomelleri, Enrico.Tomelleri@unibz.it https://www.unibz.it/en/faculties/agricultural-environmental-food-sciences/academic-staff/person/38848
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Erstes Semester
Studienjahr/e	2
KP	3
Vorlesungsstunden	30
Laboratoriumsstunden	0
Stunden für individuelles Studium	45
Vorgesehene Sprechzeiten	9
Inhaltsangabe	Productive Silviculture • Elements of forest management and the forest-wood supply chain Wood Anatomy • Basics of systematic forest botany • Microscopic and macroscopic characteristics of wood • Identification of woody species

	Wood Technology • Variations in wood structure • Defects, anomalies, and alterations of wood • Wood density and moisture content • Physical and mechanical properties • Wood assortments.
Themen der Lehrveranstaltung	The objective of the course is to provide students with an adequate knowledge of the general scientific content related to the disciplines covered, as well as the acquisition of specific professional skills. Students are expected to acquire knowledge and competences in the macro- and microscopic identification of the main economically important wood species, their physical and technical characteristics, as well as elements of forest management and insights into the forest–wood supply chain.
Stichwörter	Productive silviculture; Forest management; Wood anatomy; Wood technology; Wood properties
Empfohlene Voraussetzungen	
Propädeutische Lehrveranstaltungen	
Unterrichtsform	Frontal lectures
Anwesenheitspflicht	Recommended.
Spezifische Bildungsziele und erwartete Lernergebnisse	The course is part of the first year of the Bachelor in Wood Engineering and it is focused on the fields of wood technology. The aim of the course is to ensure an adequate scientific and professional knowledge of the topics that will be object of study. The students will acquire proper knowledge and competences on the identification of the main wood types, both from a macro- and microscopic point of view, on their physical and technical properties as well as on some basics of forest management. Knowledge and understanding Knowledge on the identification of woody species and on their technological characteristics. Knowledge and understanding of the functioning of the main wood production systems. Applying knowledge and understanding

	Integration and connection of the acquired knowledge in order to determine the characteristics related to wood quality and its use. Ability of linking such characteristics to the several wood production systems. Making judgements Critical evaluation of the factors affecting wood technological properties. Communication skills Ability of communicating the acquired knowledge with clear and proper scientific and technical language. Learning skills Ability of autonomously updating and expanding the scientific and technical knowledge acquired during the course.
Spezifisches Bildungsziel und erwartete Lernergebnisse (zusätzliche Informationen)	
Art der Prüfung	Evaluation is based on a combination of oral/written exams, assignments, and/or student presentations.
Bewertungskriterien	The final evaluation will be related to the knowledge of the topics treated during the course, to the ability of summarizing and establishing connections between topics as well as to the language clarity and command.
Pfichtliteratur	Teaching resources, including PowerPoint presentations, provided by the lecturer during the course.
Weiterführende Literatur	Comparative Wood Anatomy https://doi.org/10.1007/978-3-662-04578-7 Springer Series in Wood Science (2001) Handbook of Wood Science and Technology https://doi.org/10.1007/978-3-030-81315-4 Springer Handbooks (2023)
Weitere Informationen	
Ziele für nachhaltige	Leben an Land, Nachhaltiger Konsum und Produktion

Entwicklung (SDGs)	
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