Syllabus
Course description

Course title	Management of mountain forests
Course code	47004
Scientific sector	AGR 05
Degree	Environmental Management of Mountain Areas (EMMA)
Semester	1
Year	*I*
Academic year	2019/20
Credits	6
Modular	*no*

Total lecturing hours	36
Total lab hours	
Total exercise hours	24
Attendance	Highly suggested
Prerequisites	-
Course page	https://next.unibz.it/en/faculties/sciencetechnology/master-environmental-management-mountain-areas/course-offering/

Specific educational objectives	The course belongs to the class "characterizing" and specifically to the scientific area disciplinary area of forestry and environmental disciplines. It is aimed to provide knowledge and the scientific basis for the understanding of the ecological functioning and services of mountain forest ecosystems The ecological functioning of forests will be considered as the fundamental base to drive mountain forest management. Management will be discussed under a multi-objective perspective.

Lecturer	*Giustino Tonon, K Building, Room 202, email:* giustino.tonon@unibz.it*, tel.* 0471-017190
Scientific sector of the lecturer	AGR 05
Teaching language	English
Office hours	At any time for an appointment with the lecturer
Teaching assistant *(if any)*	Panzacchi Pietro
Office hours	At any time for an appointment
List of topics covered	The course will cover the following topics: 1. Elements of forest ecology; 2. Disturbance ecology; 3. Measuring and modeling forest; 4. Managing of mountain forest ecosystems; 5. Forest typologies; 6. Forest planning and management.
Teaching format	This is a lecture and field course in which topics are

	presented by the Professor. Practical parts and excursions are explained by the Professor with the support of local forest managers. Power Point presentations will be available in the course reserve collection database of the faculty.

Learning outcomes	**Knowledge and understanding** The course is aimed to provide knowledge and the scientific basis for the understanding of the ecological functioning and services of mountain forest ecosystems. The ecological functioning of forests will be considered as the fundamental base to drive mountain forest management. Management will be discussed under a multi-objective perspective. **Applying knowledge and understanding** By the end of the course, students should be able to: 1. Identify mountain forest types and ecosystems, also in the historical perspective; 2. Describe and forecast forest functioning and dynamics in relation to the main natural and human-induced disturbances; 3. Prepare a multi-objective plan of forest management; 4. Integrate the concept of ecosystem services into forest management; 5. Manage forests according to main ecosystem service in mountain areas. **Making judgments** Students will have the ability to integrate knowledge formulate judgments and handle complexity of forest ecosystems and their social services. **Communication skills** to present the acquired skills with a correct technical language. **Learning skills** Students will be able to autonomously extend the knowledge acquired during the study course by reading and understanding scientific and technical documentation.

Assessment	Oral exam that includes questions to assess the knowledge and understanding of the course topics and questions designed to assess the ability to transfer these skills to study cases. Space will also be dedicated to the evaluation of the ability to produce critical judgment about the topics of the course, and to the evaluation of the communication skills.
Assessment language	English

Evaluation criteria and criteria for awarding marks	Clarity of answers, mastery of language (also with respect to teaching language), ability to summarize, evaluate, and establish relationships between topics.

Required readings	There is no single textbook that covers the entire course. The course material is made up by the lectures notes and papers or chapters that will be advised during the course.
Supplementary readings	