



Teaching Guide			
Course	SILVICULTURE UNDER MULTIFUNCTIONAL OBJECTIVES		
Degree	MASTER ON MEDITERRANEAN FORESTRY AND NATURAL RESOURCES MANAGEMENT		
Plan	506	Code	53026
Period	1 <sup>ST</sup> PERIOD	Type	compulsory
Level	MASTER	Course	
ECTS Credits	6		
Language	ENGLISH		
Professor/s	José A. Reque Kilchenmann Pablo Martín Pinto		
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Department	PLANT PRODUCTION & FOREST RESOURCES		

## GENERAL SCOPE

The subject focuses on Mediterranean silviculture understood under a multifunctional point of view. That is silviculture focused on several complementary purposes. The subject is centered in the silvicultural systems and diagnosis, silvicultural treatments, risk management with special highlight in wildfires and erosion, and climate change. The students participate actively in the diagnosis of special study cases and present the basis of a silviculture management program for a special case.

## GENERAL OBJECTIVES

- i) Silvicultural diagnosis
- ii) Silvicultural systems and treatments
- iii) Management of abiotic risks in Mediterranean forests



## PROGRAMME TOPICS

1. Forest and stand diagnosis
2. Silvicultural systems
3. Silvicultural treatments
  - a. Regeneration
  - b. Tending
4. Wildfire
  - a. Ecology
  - b. Fire prevention

## ASSESSMENT

- Course requirements include participation in the classes (40%), presentation of the silviculture project (40%), final exam (20%).
- Active participation in classes will be compulsory

## TEACHING METHODS & WORK PLAN

Activities in person		Personnal work	
Theory	20	Reviewing concepts	30
Labs and travels	40	Practical work	60
TOTAL	60	TOTAL	90

### Theoretical Classes:

- Stand and forest
- Stand dynamics
- Silvicultural diagnosis
- Even aged forest
- Unevenaged forest
- Coppice and coppice with standards forests
- Silvipastoral forests
- Silvicultural treatments
  - Regeneration



- Tendingç
- Forest risk in Mediterranean forests
- Forest fires
- Fire ecology and behavior
- Fire prevention
- Adding value in forests
- Silviculture focused on fire prevention
- Analyzing specific strategies in high susceptible areas

#### Practical Classes:

- Laboratory classes to understand fire behavior
- Technical field trip to analyzing real silvicultural treatments to prevent fire spread.

#### Personal work:

- Reviewing concepts
- Personal oral presentation and poster

### **ABILITIES TO BE DEVELOPPED**

#### GENERAL ABILITIES:

- To be able to work in cross-disciplinary and multi-ethnic groups
- To develop interpersonal relations, recognizing and appreciating other cultures and habitats as well as diversity and multiculturalism
- Know and apply knowledges in practice, analyzing, summarizing, organizing & planning

#### SPECIFIC ABILITIES

- To give scientific knowledge from different fields that allow to face challenges and specific needs of silviculture in Mediterranean forests
- To develop and design silviculture strategies focused on wild fire prevention in high susceptible forests.

### **TEACHING RESOURCES**

- **NOTICE:** Specific updated resources for each section will be available weekly on UVA-Moodle platform
- [www.silviweb.com](http://www.silviweb.com). Wikispaces.com
- [www.fire.org](http://www.fire.org)

### **Professor's Curriculum vitae**



Dr. José Reque Kilchenmann

<http://sostenible.palencia.uva.es/users/requekch>

Dr. Pablo Martín Pinto

<http://sostenible.palencia.uva.es/users/pmpinto>

