











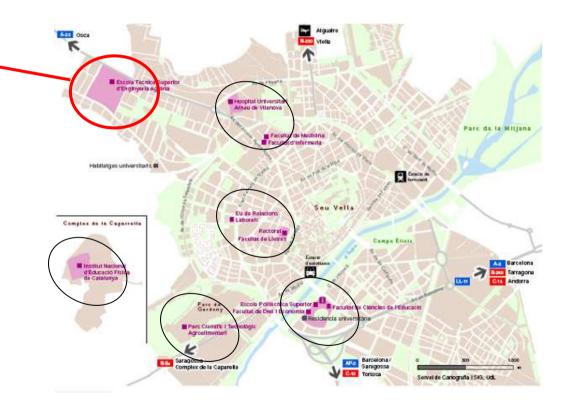


200 teachers 1700 students

Degrees in:

- Agricultural Engineering
- Forest Engineering
- Food Science & Technology
- ➤ Biotechnology
- ➤ Animal & Health Science

University Campus



Total UdL: 750 teachers 9700 students

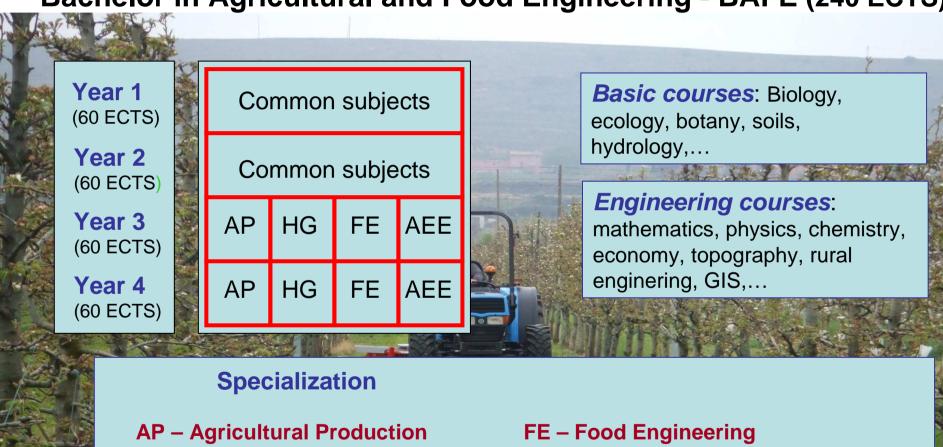








Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)



HG – Horticulture and Gardening

AEE – Agricultural and Environmental Engineering









Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)

Basic training subjects

- Biology & ecology
- · Botany and plant physiology
- Climate, soil and water Statistics and information technologies
- · Mathematics, physics and chemistry

Common training subjects

- Plant and animal production technologies
- Economics
- Rural engineering
- Topography and geographical information systems.
- Projects









Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)

Agricultural production



Extensive agricultural production

- Field crops Plant breeding
- Crop protection
- Horticulture and fruit growing
- Irrigation and agricultural equipment

Animal food and breeding

- Poultry production
- · Swine production
- Ruminant production
- Constructions and facilities











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Horticulture, Fruit Growing and Gardening

Horticulture and Fruit

- · Fruit growing
- · Horticulture
- · Plant breeding
- Crop protection
- Irrigation and agricultural equipment

Gardening and

- Gardening
- Parks engineering and management
- Landscape and land planning
- · Environmental mgmt.
- Construction and facilities











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Agrifood Industries



Agrifood industries engineering

- Food technology and engineering
- Food engineering
- Food processing
- Food microbiology
- Food quality

Agrifood industries engineering

- Food industries
- Process engineering
- Plant design Auxiliary industries
- Agroindustrial constructions









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Rural and environmental engineering

Agricultural applications in rural

- Irrigation and agricultural equipment
- · Rural constructions
- · Rural mechanisation
- Production technologies

Agricultural applications in

- Efficiency and agroenergy
- Renewable energies Environmental eng.
- Environmental management and impact evaluation











Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)

4.1 First year (compulsory subjects)

First Semester			Second Semester			
Code	Credits	Subject	Code Credits		Subject	
102510	6	Biology	102515	6	Agricultural botany and plant physiology	
102511	6	Graphic expression	102516	6	Earth Sciences	
102512	6	Physics I	102517	6	Ecology and environmental management	
102513	6	Mathematics I	102518	6	Physics II	
102514	6	General chemistry	102519	6	Organic chemistry and biochemistry	

4.2 Second year (compulsory subjects)

First Semester			Second Semester		
Code	Credits	Subject	Code	Credits	Subject
102520	6	Fundamentals of plant production	102525	6	Fundamentals of animal production
102521	6	Construction	102526	6	Agrarian economy and policies
102522	6	Business economics	102527	9	Fundamentals of rural engineering
102523	6	Statistics and Informatics	102528	6	Topography, GIS and teledetection
102524	6	Mathematics II			









Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)

4.3 Third year (speciality subjects)

4.4 Fourth year (speciality subjects)

4.3.1 Speciality: Agricultural production

First Semester			Second Semester			
Code	Credits	Subject	Code	Credits	Subject	
102530	6	Genetics and plant breeding	102552	9	Field crops	
102531	9	Plant protection	102553	6	Fruit trees, horticulture and gardening	
102532	6	Irrigation	102554	6	Poultry production	
102550	6	Animal feeding and breeding	102555	6	Swine production	
102551	6	Field crop technology	102501	6	Agricultural biotechnology (OP)	
			102502	6	Ecological agricultural production (OP)	

4.4.1 Speciality: Agricultural production

First Semester			Second Semester			
Code	Credits	Subject	Code	Code Credits Subject		
102556	6	Livestock machinery and facilities	102503	6	Precision agriculture and farming (OP)	
102557	6	Ruminant production	102504	6	Ecologic livestock production (OP)	
102540	6	Integrated practice: Management and engineering of agricultural and livestock production		6	Placement	
102541	9	Projects	102543	12	End-of-degree Project	
				6	Horizontal subject	









Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)

4.3 Third year (speciality subjects)

4.4 Fourth year (speciality subjects)

4.3.2 Speciality: Horticulture, Fruit Growing and Gardening

First Semester			Second Semester		
Code	Credits	Subject	Code	Credits	Subject
102530	6	Genetics and plant breeding	102563	6	Fruit crops
102531	9	Plant protection	102564	6	Vegetable crops
102560	6	Construction and facilities	102565	6	Gardening
102561	6	Fruit production (annual)	102561	3	Fruit production (annual)
102562	6	Horticulture (annual)	102562	3	Horticulture (annual)
			102566	6	Irrigation and agricultural equipments

4.4.2 Speciality: Horticulture, Fruit Growing and Gardening

First 3	First Semester			Second Semester		
Code	Credits	Subject	Code Credits Subject			
102567	6	Parks engineering and management	102569	6	Environmental management	
102568	9	Landscape and land planning	102542	6	Placement	
102544	6	Integrated practice: Management and engineering of vegetable and fruit growing and gardening		12	End-of-degree Project	
102541	9	Projects		6	Horizontal subject	









Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)

4.3 Third year (speciality subjects)

4.4 Fourth year (speciality subjects)

4.3.3 Speciality: Rural and Environmental Engineering

First 3	First Semester			Second Semester					
Code	Credits	Subject	Code	Credits	Subject				
102532	6	Irrigation	102574	6	Precision agriculture automatics and robotics				
102570	6	Agricultural mechanisation	102575	6	Extension of irrigation				
102571	6	Material resistance and structural calculations	102576	6	GPS, DEM and CAD				
102572	6	Animal production technologies	102577	6	Rural electrical systems				
102573	6	Plant production technologies	102578	6	Structural materials				

4.4.3 Speciality: Rural and Environmental Engineering

First Semester			Second Semester					
Code	Credits	Subject	Code Credits Subject					
102579	6	Buildings and land works	102595	6	Environmental management and impact evaluation			
102593	6	Efficient energy use and renewable energy	102542	6	Placement			
102594	6	Environmental engineering	102543	12	End-of-degree Project			
102545	6	Integrated practice: Management and engineering		6	Horizontal subject			
102541	9	Projects						









Bachelor in Agricultural and Food Engineering - BAFE (240 ECTS)

4.3 Third year (speciality subjects)

4.4 Fourth year (speciality subjects)

4.3.4 Speciality: Agrifood Industries

First Semester		Second Semester			
Code	Credits	Subject	Code	Credits	Subject
102580	6	Food analysis	102585	6	Agro industrial constructions and electrical systems
102581	6	Fundamentals of food engineering	102586	6	Design of food processing plants
102582	9	Food industries	102587	6	Food process engineering I
102583	6	Food microbiology	102588	6	Animal foods processing technology
102584	6	Vegetable foods processing technology I	102589	6	Vegetable foods processing technology II

4.4.4 Speciality: Agrifood Industries

First Semester		Second Semester			
Code	Credits	Subject	Code Credits Subject		
102590	6	Food process engineering II	102592	6	Food quality and safety management
102591	9	Auxiliary systems in food industry	102542	6	Placement
102546	6	Integrated practice: Food management and engineering	102543	12	End-of-degree Project
102541	9	Projects		6	Horizontal subject









Master in Agronomical Engineering - MAE (90 ECTS)

Year 1

Compulsory
(33 ECTS)

Compulsory
(33 ECTS)

Year 2

Optative (12 ECTS)
Master thesis
(12 ECTS)

Compulsory courses

Management of hydric resources (6 ECTS)

Infrastructure management (6 ECTS)

Animal productions systems (7 ECTS)

Biotechnology & plant and animal breeding (6 ECTS)

Land & agricultural resource management (4 ECTS)

Agrifood industries technology (10 ECTS)

Agroenvironmental policy & rural development (4 ECTS)

Business management (6 ECTS)

Plant production & protection systems (7 ECTS)

Business administration (4 ECTS)

Statistical methods (6 ECTS)

Intensification in

Integrated pest management Swine health & production

Soil & water management

Manag. & innovation in food industry

Placement (6 ECTS)

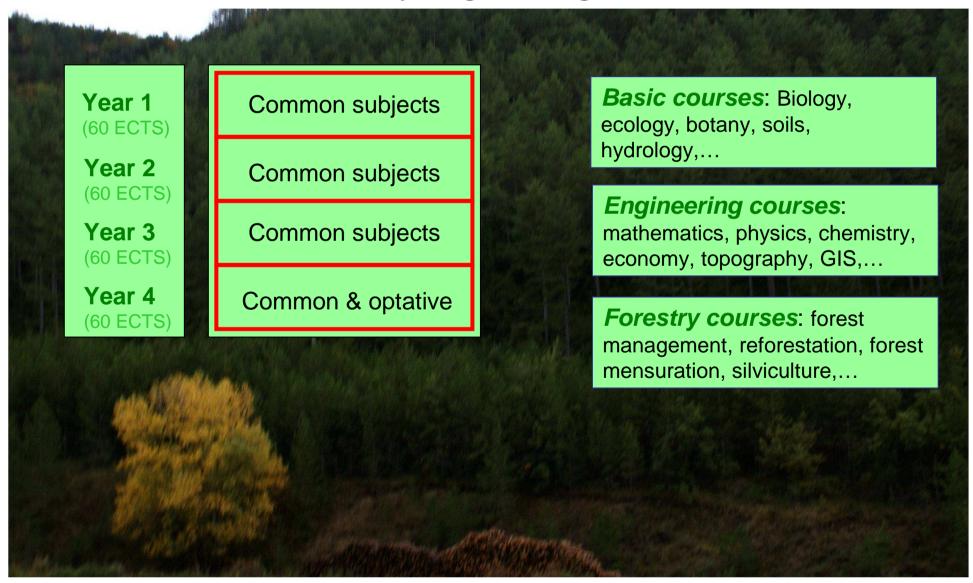








Bachelor in Forestry Engineering – BFE (240 ECTS)



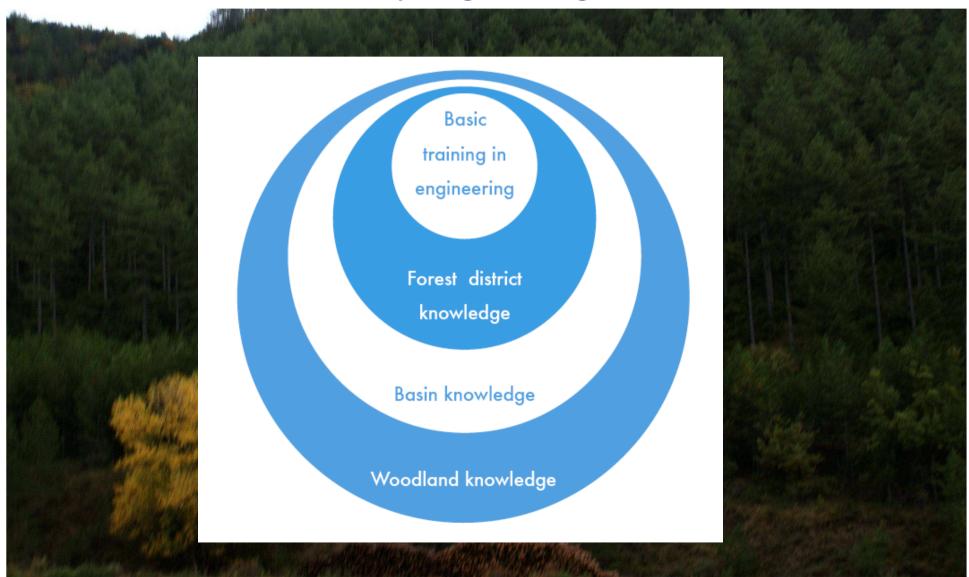








Bachelor in Forestry Engineering – BFE (240 ECTS)



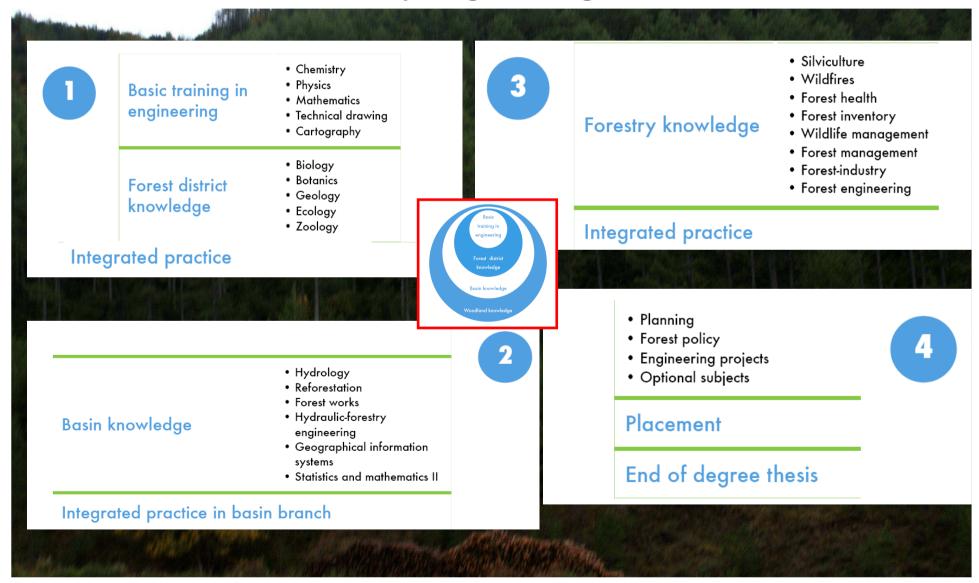








Bachelor in Forestry Engineering – BFE (240 ECTS)











Bachelor in Forestry Engineering – BFE (240 ECTS)

4.1 First year (compulsory subjects)

First	First Semester		Second Semester		
Code	Credits	Subject	Code	Credits	Subject
102410	6	Graphic expression and cartography	102414	6	Forest biology and genetics
102411	9	Physics	102415	9	Forest botany
102412	6	Mathematics I	102416	6	Earth Sciences
102413	9	Chemistry	102417	9	Ecology, plant ecophysiology and forest zoology

4.2 Second year (compulsory subjects)

First S	First Semester			Second Semester		
Code	Code Credits Subject		Code	Credits	Subject	
102420	6	Statistics and informatics	102425	6	Business economics	
102421	6	Forest hydrology	102426	6	Forest hydraulic engineering	
102422	6	Mathematics II	102427	6	Forest works	
102423	6	Integrated practice I	102428	6	Integrated practice II	
102424	6	Topography, GIS and Remote Sensing	102429	6	Reforestation	









Bachelor in Forestry Engineering – BFE (240 ECTS)

4.3 Third year (compulsory subjects)

First Semester			Second Semester			
Code	Credits	Subject	Code	Credits	Subject	
102430	6	Inventory, forest mensuration and forest sampling	102434	9	Forest and industry	
102431	6	Forest engineering	102435	9	Forest fires and forest health	
102432	6	Wildlife management	102436	6	Integrated practice III	
102433	9	Forest management and range science	102437	6	Silviculture	











Bachelor in Forestry Engineering – BFE (240 ECTS)

4.4 Fourth year

The degree's optional credits will take place during the first and second semesters to a total amount of 30 credits. All optional subjects are 6 credit subjects, and will be offered on alternate years. Each year's guide will contain information about the ones offered for that year.

Code	Credits	Subject	Code	Credits	Subject
102440	9	Land and environmental planning	102443	6	Placement
102441	6	Forest policy and legislation	102444	12	End-of-degree Project
102442	6	Projects		12	Optional subjects ¹
	12	Optional subjects ¹			

4.4.1 Optional subjects - Mention: Natural system management

Code	Credits	Subject	Credits
102470	Conservation and Biodiversity (OP)	1-2	6
102471	Wood in construction (OP)	1-2	6
102472	Meteorology applied to the environment (OP)	1-2	6
102473	Statistical methods and forest modelling (OP)	1-2	6
102474	Forest nurseries and reforestation (OP)	1-2	6
102475	Forest health (OP)	1-2	6
102476	Functional silviculture (OP)	1-2	6

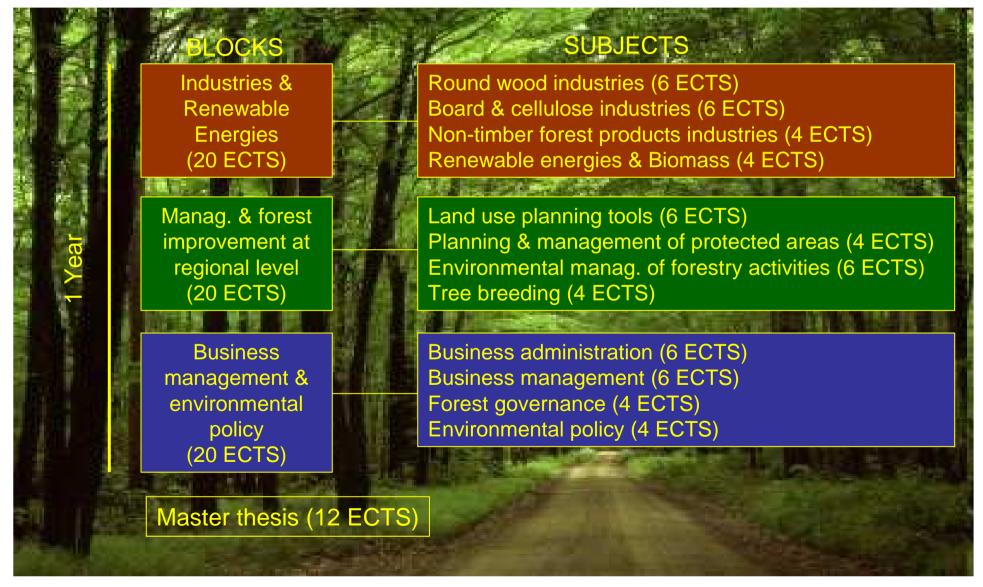








Master in Forestry Engineering - MFE (72 ECTS)











Some aspects of Bologna process included in new study plans:

- > Evaluation based on *continuous assessment*
- Focus on practical training
- Student's personal attention

















> Continuous assessment of the student

Including testing, lab reports, exams, oral presentations, resolution of study cases, and other assessment activities

- At least 3 evaluation activities of different tipology
- All evaluation activities ≤ 50% of final grade
- Second chance for theorical tests counting 30-50% of final grade











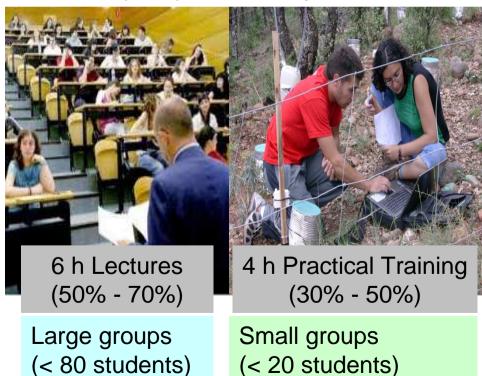


Focus on practical training

1 ECTS = 25 hours of student work

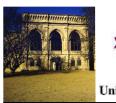
➤ 10 h (40%): Instructor present

➤ 15 h (60%): Instructor not present





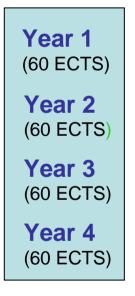
Individual student work

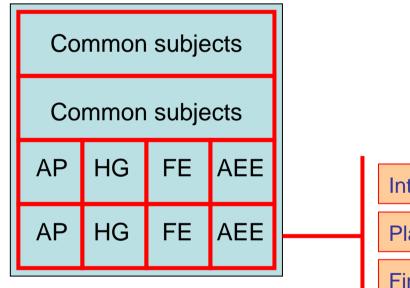






Degree in Agricultural and Food Engineering (240 ECTS)





Integrated practices (6 ECTS)

Placement (6 ECTS)

Final degree project (12 ECTS)

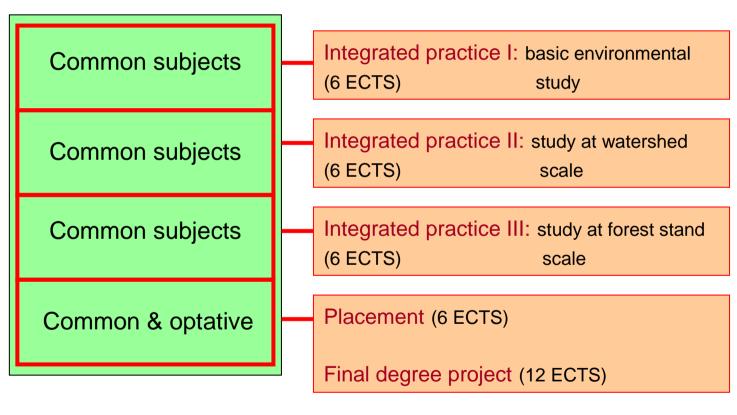






Degree in Forestry Engineering (240 ECTS)













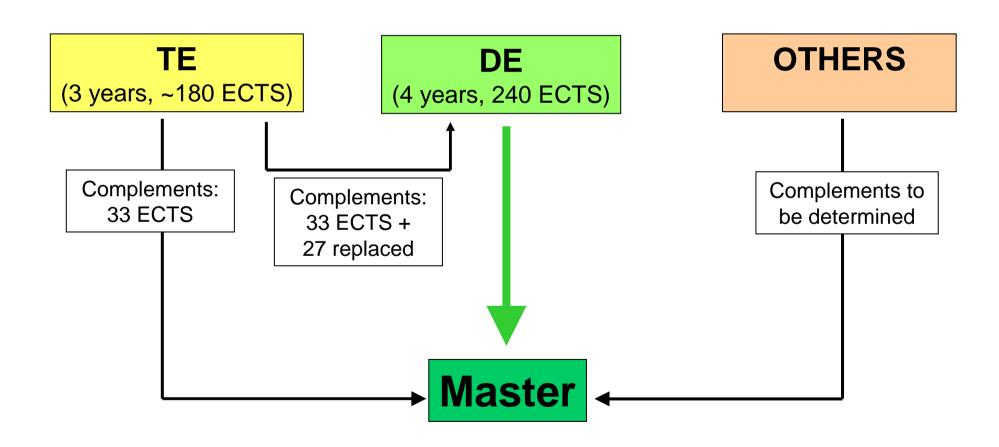
- > Student's personal attention
 - Small groups
 - Tutoring program: NESTOR







Access to Master (ex. MFE)





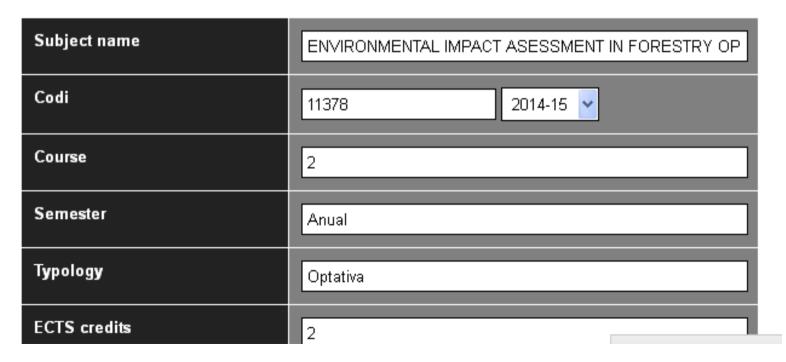




Structure and content of courses



Subject's general information



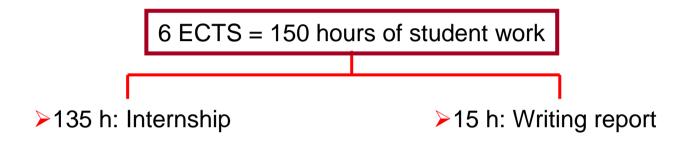








Placements / Internships (6 ECTS)



Parties involved:









