General Information	
Academic subject	Wood technology and forestry mechanization
Degree course	Tugest
Curriculum	
ECTS credits	9
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Antonio Pantaleo	Antonio.pantaleo@uniba.it	AGR 06

ECTS credits details			
Basic teaching activities	64 hours lecture	14 hours lab and field	

Class schedule	
Period	II semester
Year	
Type of class	Lecture- workshops

Time management	
Hours	225
In-class study hours	78
Out-of-class study hours	147

Academic calendar	
Class begins	5th March 2018
Class ends	22nd June 2018

Syllabus	
Prerequisites/requirements	Maths, physics
Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS)	*Knowledge and understanding* *The student will acquire skills and knowledge concerning wood forestry works, cost analysis of forestry mechanization and technologies selection, wood technology fundamentals. The educational goals, in terms of skills and knowledge, are reported in Annex A of the Teaching Rules of the Master Programme (expressed as european teaching targets indicators, Biosystems Engineering field of activity).* *Applying knowledge and understanding* Knowledge of basic technologies for forestry mechanization and wood processing *Making informed judgements and choices* Carry out cost-benefit analyses and financial appraisals of forestry works and wood conditioning and processing technologies *Communicating knowledge and understanding* Describe fundamental characteristics of wood and wood products for a wide range of applications and advise land owners about best forestry works strategies *Capacities to continue learning* Knowledge of technical advancements in wood technology,

	wood processing and conditioning, forestry mechanization, standards for use of wood materials in structural and non structural applications, legislative framework to support forestry works
Contents	
Course program	
Bibliography	• PANTALEO/PELLERANO - Appunti dalle lezioni e dispense • G. TSOUMIS - Science and Technology of wood. Chapman Hall - New York. • G.GIORDANO - Tecnologia del legno – UTET • HIPPOLITI G., Appunti di Meccanizzazione Forestale, Studio Editoriale Fiorentino, 1997. • SPINELLI R., Meccanizzazione Forestale Intermedia, Edagricole, 2000
Notes	
Teaching methods	*Lectures will be presented through PC assisted tools (PowerPoint, Adobe Acrobat, etc.).* *For foreign students (LLP-Erasmus, Tempus, etc):* G. TSOUMIS - Science and Technology of wood. Chapman Hall - New York
Assessment methods (indicate at least the type written, oral, other)	*The exam consists of an oral test with questions related to the programme.* *The partial exam during the teaching course for students attending classes consists of an oral test. This test concurs to the evaluation of the final exam, and in this case the final score is the average of the score in partial exam and final exam. Evaluation is carried out on a base of maximum 30 points and the student is successful with a minimum of 18 points.* *The evaluation is carried out on the basis of criteria detailed in Annex A, teaching Rules of master in sustainable management of Mediterranean countryside.*
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are.	• *knowledge and understanding* o knowledge of forestry works management and technologies; methodologies for cost-benefits analysis; fundamental characteristics of wood, drying processes, wood/water relationships, wood mechanics, wood based materials production • *applied knowledge and understanding* o carry out cost-benefit analysis of investments for forestry works and wood processing technologies; quantification of financial profitability of investments in agro-forestry activities and wood processing works • *Making informed judgements and choices* o Carry out analyses and selection for forestry mechanization systems, wood products classification on the basis of technical standards, selection of processing technologies on the basis of wood characteristics and end uses

	Communicating knowledge and understanding - Communicating to end users the investment opportunities and technology basics of forestry mechanization and wood technologies and processes, describe the fundamentals of wood products and processing technologies *Capacity to continue learning* - Capacity to understand technical data sheets of forestry technologies and equipments, preliminary sizing of equipments for wood processing, conditioning, storage, drying, cutting and other processes on the basis of end uses specifications
Further information	