General Information	
Academic subject	Tree crops growing
Degree course	Management and conservation of the agro-forest environment. Tutela e Gestione del Territorio e del Paesaggio Agro-Forestale (TuGest)
Curriculum	
ECTS credits	3
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Gaetano Alessandro Vivaldi	gaetano.vivaldi@uniba.it	AGR/03

ECTS credits details			
Basic teaching activities	Lectures (2)	Practical (1)	

Class schedule	
Period	II term
Year	II
Type of class	Lecture - Practical

Time management	
Hours	75
In-class study hours	30
Out-of-class study hours	45

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

Syllabus	
Prerequisites/requirements	-
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* To understand the base knowledge of the most important tree crops of Apulia region. • *Applying knowledge and understanding* Applying knowledge on tree crops species in relation to environmental and landscape contest. • *Making informed judgements and choices* Ability to independently reason in order to attempt solutions of non-standard problems. • *Communicating knowledge and understanding* Ability to manage quantity and quality of tree crops by using sustainable techniques for organic and conventional farms, to apply standard certification for conventional and organic farms. • *Capacities to continue learning* Continuous learning updates in specific sectors, by using ITC instruments. The expected learning outcomes, in terms of knowledge and skills, are provided in Annex A of the academic regulations of

	the Degree Course
Contents	• General aspects: cropping systems, multifunctionality of cropping systems, biodiversity, nomencalture of tree species. • Environment: zoning. • Tree: organografy, vegetative and reproductive cycles. • Agronomic techniques: cultivar, tree planting, pruning, soil management, fartilization and irrigation. • Harvest: repening index, harvesting methods, fruit quality. The main fruit tree species: importance and diffusion, botanical characteristics, propagation, agronomic techniques and tree crops quality.
Course program	
Bibliography	A.VV. 2014. Arboricoltura Generale. Patron Editore, Bologna AA.VV. 1991. Frutticoltura speciale. Edizioni REDA, Roma. AA.VV. 2014. Sistemi colturali olivicoli. Aracne editore. AA.VV. 2015. L'acqua in Agricoltura. Gestione sostenibile della pratica irrigua. Edagricole. AA.VV. 2015. Linee guida per il riuso irriguo delle acque reflue depurate. Edizioni di pagina.
Notes	Lesson notes integrate the contents of bibliography
Teaching methods	Lectures will be held by using PowerPoint slides and exercises using the blackboard with student's involvement
Assessment methods (indicate at least the type written, oral, other)	For all students of the year an intermediate evaluation is scheduled. It will be an oral exam on the issues adressed until that time. For students who have carried out the intermediate test, the result of the final examination is expressed at the end of the final examination as the result arithmetic mean of the intermediate and final examination. The final examination consists of an oral examination on the topics developed during the hours of theoretical and practical lectures held both in the classroom and in the laboratory, as reported in the academic regulations for the Degree Course (article 9) and in the study curriculum (Annex A). For foreign students, the lenguage used for the final examination will be english. The evaluation of the student's knowledge level is based on pre-established criteria, as detailed in Annex A to the didactic regulations of the study curriculum.
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* Base knowledge of the most important tree crops. Base knowledge of the most useful and important agronomic techniques for tree crops management. Appropriate knowledge about the most important fruits characteristics. • *Applying knowledge and understanding* To perform useful research and use suitable tools in order to solve specific problems of tree crops systems. The ability to manage a fruit orchard by using sustainable

	techniques related with environmental contest in the perspective of biodiversity safeguard. The ability to apply knowledge and understanding is verified by final exams or intermediate test. All exams will be oral. • *Making informed judgements and choices* To be able to characterize an agricultural area and to find the most suitable cropping system in order to increase its value. • *Communicating knowledge and understanding* To be able to clearly and exhaustively present project results and promote activities group by using technical reports, oral presentation using technical lenguage. • *Capacities to continue learning* To be able to collect informations by using informatic instruments.
Further information	Reception hours: 03.00 – 05.00 PM, after appointment.