

## Course of Study in Agricultural Science and Technology - Curriculum PVPC

### Academic Year 2023-2024

### FRUIT TREE CROP

General information	
Year of the course	II
Academic calendar (starting and ending date)	II semester (from 26-02 to 14-06 2024)
Credits (CFU/ETCS):	6
SSD	AGR/03
Language	Italian
Mode of attendance	Attendance is not mandatory but strongly recommended

Professor/ Lecturer	
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Virtual room	Microsoft TEAMS platform
Office Hours	by appointment

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
150	32	28	90
CFU/ETCS			
6	4	2	

<b>Learning Objectives</b>	The teaching aims to provide knowledge and skills of the junior agronomist, as a technician of agriculture and fruit tree production, as well as to guarantee the safety, quality and wholesomeness of fruit tree production with the use of innovative and sustainable methodologies and the reduction of the environmental impact. Therefore, the student will have essential knowledge and skills for carrying out the professional activity in fruit farms, in technical assistance to companies operating in the related supply chains, in consultancy for those companies operating in connection with the aforementioned supply chains (producers and distributors of technical means, machines and systems) and also in those operating in logistics and large-scale retail trade (GDO).
<b>Course prerequisites</b>	Plant Biology, Agronomy, Mathematics and Physics

<b>Teaching strategie</b>	Lectures, workshops, lab and field practical sections
<b>Expected learning outcomes in terms of</b>	
<b>Knowledge and understanding on:</b>	fruit tree species propagation and nursery; orchard set up and management, with particular focus on fruit ripening and harvesting.

<b>Applying knowledge and understanding on:</b>	quantitative and qualitative aspects of fruit production for fresh consumption and for industry, included sustainability, technical tools for integrated and organic farming, abiotic stress.
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• <i>Making informed judgments and choices</i> on suitable fruit species/varieties in the different cultivation areas. Ability to evaluate the agronomical aspects in the different environments with practical implications on the production. Ability to critically evaluate the use of different cultivation techniques for a sustainable management of the fruit species.</li> <li>• <i>Communicating knowledge and understanding</i> on ability to expose the skills acquired with their own vocabulary and pertinent to the discipline</li> <li>• <i>Capacities to continue learning</i>, as ability to extend the knowledge acquired during the course through the reading and understanding of scientific and technical texts.</li> </ul>
<b>Syllabus</b>	
<b>Content knowledge</b>	Basic knowledge on fruit tree species organography, organogenesis (both vegetative and reproductive cycles), propagation general principles, planting and sustainable management.
<b>Texts and readings</b>	<ul style="list-style-type: none"> <li>• AA. VV. ARBORICOLTURA GENERALE. Patron Editore, 2012</li> <li>• AA. VV. MANUALE DI ORTOFRUTTICOLTURA. Edagricole, 2022</li> </ul>
<b>Notes, additional materials</b>	The text-books have to be integrated by lessons notes and by the didactic material made by the Teacher
<b>Repository</b>	The didactic material is available on the specific Teams class

<b>Assessment</b>	
<b>Assessment methods</b>	For students enrolled in the year of the course in which the teaching is carried out, a mid-term test is required. The mid-term test consists of an written test on the topics developed during the lesson hours in the classroom and in the laboratory/field. The mid-term test will be assessed out of thirty and in the event of a positive outcome, in the subsequent oral test (second part) the exam will focus on the topics developed during the lesson hours in the classroom and in the laboratory/field until the end of the course. The outcome of this test contributes to the evaluation of the final exam and is valid for one academic year. The exam consists of an oral test on the topics developed during the lesson hours in the classroom and in the laboratory/field, as reported in the Didactic Regulations of the Degree Course in Agricultural Sciences and Technologies (Article 9) and in the study plan (Annex A).
<b>Assessment criteria</b>	<ul style="list-style-type: none"> <li>• <i>Knowledge and understanding</i> on fruit tree species propagation and nursery; orchard set up and management and harvesting</li> <li>• <i>Applying knowledge and understanding, Autonomy of judgment, Communicating knowledge and understanding, Communication skills and Capacities to continue learning</i> on quantitative and qualitative aspects of fruit production. for fresh consumption and for industry, included sustainability, technical tools for integrated and organic farming, abiotic stress</li> </ul>

Final exam and grading criteria	<p>The assessment of the student's preparation takes place on the basis of pre-established criteria, as detailed in Annex A of the Academic Regulations of the Degree Course in Agricultural Sciences and Technologies (expressed through the European Descriptors of the degree).</p> <p>For students who have taken the mid-term test, the evaluation of the exam is expressed as the average between the mark obtained on the mid-term test and the final exam. The final mark is in 30 points. The test is passed with a mark higher or equal to 18.</p>
<b>Further information</b>	/