

**Biotechnical Faculty / PLANT PRODUCTION / MEDITERRANEAN FRUIT GROWING**

<b>Course:</b>	MEDITERRANEAN FRUIT GROWING			
<b>Course ID</b>	<b>Course status</b>	<b>Semester</b>	<b>ECTS credits</b>	<b>Lessons</b> (Lessons+Exercises+Laboratory)
4802	Mandatory	6	6	3+1+1
<b>Programs</b>	PLANT PRODUCTION			
<b>Prerequisites</b>	None			
<b>Aims</b>	Acquaint students with the origin, distribution, importance, ecological conditions of cultivation, morphology and physiology, reproduction, agrotechnics, and an assortment of Mediterranean fruits in Montenegro.			
<b>Learning outcomes</b>	After passing the exam, the student will be able to: - recognize the types of Mediterranean fruit, - produce seedlings of the most important Mediterranean fruit species, - prepare the land for planting and carry out the planting, - apply the acquired knowledge in pruning, irrigation, and fertilization, - to show producers the practical implementation of pruning and grafting, - organizes and manages working groups when performing agrotechnical practices.			
<b>Lecturer / Teaching assistant</b>	Docent Mirjana Adakalić, MSc Slavojka Malidžan			
<b>Methodology</b>	Lectures, exercises, colloquiums, tests and final exam			
<b>Plan and program of work</b>				
Preparing week	Preparation and registration of the semester			
I week lectures	Getting to know the subject, name of the subject, Mediterranean zone of Montenegro - climate and soil.			
I week exercises	Acquaintance of students with the exercise program. The exercises will be done in groups of 10 to 15 students.			
II week lectures	Actinidia - origin and importance, distribution, ecological conditions, reproduction, agrotechnics, and harvesting.			
II week exercises	Systematic place, morphology, and physiology of Actinidia. Identification of the types of buds, reproductive branches, leaves, flowers, and fruits of Actinidia varieties on slides and plant material.			
III week lectures	Japanese persimmon - origin and importance, distribution, ecological conditions, reproduction, agrotechnics, and harvesting.			
III week exercises	Systematic place, morphology, and physiology of the Japanese persimmon. Identification of the types of buds, reproductive branches, leaves, flowers, and fruits of Japanese persimmon varieties on slides and plant material.			
IV week lectures	Fig - origin and significance, distribution and ecological conditions.			
IV week exercises	Systematic place, morphology, and physiology of the fig. Identifying the type of buds, bearing twigs, leaves, and flowers of fig varieties on slides and plant material.			
V week lectures	Fig - propagation, agrotechnics, and harvesting.			
V week exercises	Identification of fruits of fig varieties on slides and plant material.			
VI week lectures	Almond and Ziziphus jujuba - origin and importance, distribution, ecological conditions, propagation, agrotechnics, and harvesting.			
VI week exercises	Systematic place, morphology, and physiology of almond and Ziziphus jujuba. Identification of the types of buds, reproductive branches, leaves, flowers, and fruits of almond and Ziziphus jujuba varieties on slides and plant material.			
VII week lectures	Pomegranate - origin and significance, distribution, ecological conditions, reproduction, agrotechnics, and harvesting.			
VII week exercises	Systematic place, morphology, and physiology of pomegranate. Identification of the type of buds, bearing twigs, leaves, flowers, and fruits of pomegranate varieties on slides and plant material.			
VIII week lectures	Colloquium I Citrus fruits - origin, origin of citrus fruits in Montenegro, agroecological conditions, production in the world and our country.			
VIII week exercises	Systematic site of citrus fruits, types of citrus fruits.			
IX week lectures	Remedial colloquium I. Unšiu mandarin - origin and importance, ecological conditions, reproduction, planting, care, and harvesting.			

IX week exercises	Systematic place, morphology, and physiology of unshiu mandarin. Identification of the type of buds, bearing branches, leaves, flowers, and fruits of unshiu mandarin varieties on slides and plant material.
X week lectures	Orange - origin, importance and distribution, ecological conditions.
X week exercises	Test 1. Systematic place, morphology, and physiology of orange. Identifying the type of buds, bearing branches, leaves, flowers, and fruits of orange varieties on slides and plant material.
XI week lectures	Lemon, citron, grapefruit, shadok, bitter orange, poncirus. Basic features (origin and significance, relationship to climate).
XI week exercises	Systematic place, morphology, and physiology of lemon, citron, grapefruit, shadok, bitter orange, and poncirus. Identifying the types of buds, reproductive branches, leaves, flowers, and fruits of varieties on slides and plant material.
XII week lectures	Colloquium II Olive - Origin, importance, distribution, and agroecological conditions.
XII week exercises	Systematic place, morphology, and physiology of the olive.
XIII week lectures	Remedial Colloquium II - Olive - propagation, planting, plant care (soil maintenance, fertilization, irrigation, pruning).
XIII week exercises	Identification of the types of buds, bearing branches, leaves, flowers, and fruits of olive varieties on slides and plant material.
XIV week lectures	Olive - pruning, regeneration, assortment.
XIV week exercises	Test 2.
XV week lectures	Olive - harvesting, processing.
XV week exercises	Field exercise.
<b>Student workload</b>	Weekly 6 credits x 40/30=8 hours and 0 minutes 3 hour(s) of theoretical lecture 1 hour(s) of practical lecture 1 exercise 3 hour(s) and 0 minutes independent work, including consultations During the semester Classes and final exam: 8 hours and 0 minutes x 16 = 128 hours and 0 minutes Necessary preparation before the beginning of the semester (administration, registration, certification): 8 hours and 0 minutes x 2 = 16 hours and 0 minutes Total workload for the course: 6 x 30=180 hours Supplementary work for exam preparation in the remedial exam period, including taking a make-up exam from 0 to 30 hours (remaining time from the first two items to the total load for the subject) 36 hours and 0 minutes Load structure: 128 hours and 0 minutes (teaching), 16 hours and 0 minutes (preparation), 36 hours and 0 minutes (additional work)
<b>Per week</b>	<b>Per semester</b>
<b>6 credits x 40/30=8 hours and 0 minuts</b> 3 sat(a) theoretical classes 1 sat(a) practical classes 1 excercises <b>3 hour(s) i 0 minuts</b> of independent work, including consultations	Classes and final exam: <b>8 hour(s) i 0 minuts x 16 =128 hour(s) i 0 minuts</b> Necessary preparation before the beginning of the semester (administration, registration, certification): <b>8 hour(s) i 0 minuts x 2 =16 hour(s) i 0 minuts</b> Total workload for the subject: <b>6 x 30=180 hour(s)</b> Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) <b>36 hour(s) i 0 minuts</b> Workload structure: <b>128 hour(s) i 0 minuts (cources), 16 hour(s) i 0 minuts (preparation), 36 hour(s) i 0 minuts (additional work)</b>
<b>Student obligations</b>	Students are required to attend classes and exercises, do colloquiums, tests, and final exam.
<b>Consultations</b>	In agreement with the students, one hour a week
<b>Literature</b>	- Lazović B., Marković M., Jovović Z., Božović Đ., Jačimović V., Čizmović M., Savić S., Radulović M., Mirecki N., Adakalić M., Dubljević R. (2021): Genetički resursi u biljnoj proizvodnji Crne Gore., CANU, Odjeljenje prirodnih nauka, ISBN 978-86-7215-496-2 COBISS.CG-ID 17918724 <a href="https://canupub.me/30b1">https://canupub.me/30b1</a> - Nikolić M., Radulović M. (2010): Suptropske i tropske voćke, Naučno voćarsko društvo Srbije, Čačak. - Radulović M., Šturanović M. (2011): Egzotično voće, Biotehnički fakultet, Podgorica. - Radulović M. (2000): Mandarina unšiu - Japanska mandarina, „Obod“, Cetinje. - Radulović M., Slavojka Malidžan. (2015): Mediteransko voćarstvo (skripta). - Ksenija Miranović (2006): Maslina, „Pobjeda“, Podgorica.
<b>Examination methods</b>	Attendance and activity: (5 + 5) 10 points - Colloquium: (2 x 10) 20 points - Test: (exercises) (2 x 10) 20 points - Final exam: 50 points A passing grade is obtained when at least 50 points are collected. Grades and points: A (90-100 points); B (80-90); C (70-80); D (60-70); E (50 to 60); F (< 50)

Special remarks						
Comment						
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points