

**Biotechnical Faculty / NURSERY PRODUCTION / SPECIFIC NURSERY PRODUCTION**

<b>Course:</b>	SPECIFIC NURSERY PRODUCTION			
<b>Course ID</b>	<b>Course status</b>	<b>Semester</b>	<b>ECTS credits</b>	<b>Lessons</b> (Lessons+Exercises+Laboratory)
7689	Mandatory	1	7	4+2+0
<b>Programs</b>	NURSERY PRODUCTION			
<b>Prerequisites</b>	None			
<b>Aims</b>	To introduce students with the basic principles and technologies of plant reproduction of different fruit varieties interesting for cultivation in subtropical zone.			
<b>Learning outcomes</b>	After passing the exam, the student should recognize the best propagation techniques of certain fruit species that can be grown in the subtropical zone of Montenegro. It recognizes the standard of quality of planting material and the possibility of trading protected varieties.			
<b>Lecturer / Teaching assistant</b>	Dr Miroslav Čizmović, MSC Miloš Šturanović			
<b>Methodology</b>	Lectures, consultations, exercises, colloquiums and Final exam.			
<b>Plan and program of work</b>				
Preparing week	Preparation and registration of the semester			
I week lectures	Significance of the course, the basics of regeneration, the specifics of biology of subtropical species.			
I week exercises	The natural tendency of some species toward rooting.			
II week lectures	Economical and environmental bases for seedling production, the main parts of the nurseries.			
II week exercises	Prediction of surfaces necessary for each parts of nursery garden.			
III week lectures	Production of generative rootstock for citrus fruits and other species, advantages and disadvantages.			
III week exercises	Collecting seeds for generative rootstocks and seeds-processing.			
IV week lectures	Production of vegetative rootstock, rooting, soft and hard wood cuttings.			
IV week exercises	Generative rootstock production, extraction, cleaning and preservation of seeds.			
V week lectures	The grafting, types, time of application, shortening the process of obtaining seedlings.			
V week exercises	Hard wood cuttings and methods for keeping.			
VI week lectures	Colloquium I.			
VI week exercises	Control of planting material on the market, practical work.			
VII week lectures	Substrates, container seedlings.			
VII week exercises	Grafting I.			
VIII week lectures	Replanting and regrafting of old fruit trees.			
VIII week exercises	Grafting II.			
IX week lectures	Tissue culture, growth media, micropropagation.			
IX week exercises	The old trees regrafting.			
X week lectures	Production of citrus seedlings, seedlings for home growing.			
X week exercises	The apical meristem isolation.			
XI week lectures	Reproduction of deciduous subtropical fruits, olives.			
XI week exercises	Micropropagation as a way to obtained virus free seedlings.			
XII week lectures	Colloquium II.			
XII week exercises	Cultivation of mother trees, different type of layers.			
XIII week lectures	Strawberries reproduction, rootstock for sweet and sour cherry, apricot and peach.			
XIII week exercises	Production of seedlings for home.			
XIV week lectures	Production of seedlings of peach, sweet and sour cherry, and apricot. UPOV.			
XIV week exercises	Final replanting the seedlings.			
XV week lectures	Standard quality regulations of planting material, declaration, labeling and transport of seedlings.			

XV week exercises		Keeping seedlings to the sale moment.				
<b>Student workload</b>						
<b>Per week</b>		<b>Per semester</b>				
<b>7 credits x 40/30=9 hours and 20 minuts</b> 4 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises <b>3 hour(s) i 20 minuts</b> of independent work, including consultations		Classes and final exam: <b>9 hour(s) i 20 minuts x 16 =149 hour(s) i 20 minuts</b> Necessary preparation before the beginning of the semester (administration, registration, certification): <b>9 hour(s) i 20 minuts x 2 =18 hour(s) i 40 minuts</b> Total workload for the subject: <b>7 x 30=210 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>42 hour(s) i 0 minuts</b> Workload structure: <b>149 hour(s) i 20 minuts (courses), 18 hour(s) i 40 minuts (preparation), 42 hour(s) i 0 minuts (additional work)</b>				
<b>Student obligations</b>		Responsibilities of students during teaching: the presence of lectures and exercises, doing the colloquiums and Final exam.				
<b>Consultations</b>						
<b>Literature</b>		Recommended literature: Lučić, P., Đurić, Gordana, Mičić, N. (1996): Voćarstvo I, 2. Medigović, J., Đaković, M. (2008): Proizvodnja sadnica voća, 3. Popović, R., Čizmović, M. (2008): Rasadnička proizvodnja (skripta), 4. Memić, S., Drkenda, P., Kojić, A. ( 2010): Proizvodnja voćnog i loznog sadnog materijala, Poljoprivredni fakultet , Sarajevo, 5. Ševar,M.i sar.( 2005): Proizvodnja voćnog i loznog sadnog materijala, Hrvatski zavod za poljoprivredu, Zagreb.				
<b>Examination methods</b>		Assessments: - Presence and activity 5 + 5 = 10 - Colloquium 2 x 20 = 40 - Final exam = 50				
<b>Special remarks</b>						
<b>Comment</b>						
<b>Grade:</b>	F	E	D	C	B	A
<b>Number of points</b>	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