

## Biotechnical Faculty / CONTINENTAL FRUIT GROWING AND MEDICAL PLANTS / POME FRUIT TREES

Course:	POME FRUIT TREES							
Course ID	Course status	Semester	ECTS credits	<b>Lessons</b> (Lessons+Exer cises+Laboratory)				
8412	Mandatory	5	7	3+1+1				
Programs	CONTINENTAL FRUIT GROWING AND MEDICAL PLANTS							
Prerequisites	No prerequisites required							
Aims	Familiarizing students with the origin, biology, modern fruit variety, establishing orchards and with the economy of pome fruit production.							
Learning outcomes	After getting the passing grade, the student will be able to: Explain the origin and scientific classification of pome fruit varieties. Recognize biological characteristics of pome fruits, varieties and rootstocks, as well as specific technologies for cultivation the same. Distinguish characteristics of varieties, quality and maturity periods. Identify the benefits of agro-ecological conditions for the cultivation of specific fruit trees, as well as for the practical implementation of measures to establish and maintain orchards. Describe the techniques of fruitfulness regulation in pome fruit varieties. Students must also develop efficient learning, critical thinking and properly evaluate methods of teaching and learning outcomes.							
Lecturer / Teaching assistant	Prof. dr Šebek Gordana and dr Stojanović Milena							
Methodology	student engagement, seminar paper, both tests and final exam							
Plan and program of work								
Preparing week	Preparation and registration of the semester							
l week lectures	The origin, historical development, scientific classification of pome fruit varieties. Ecology of pome fruit varieties.							
I week exercises	The morphology of the root, stem, crown, buds, flowers and fruits.							
II week lectures	Physiology of growth, development, formation and the growth of flower buds, flowering, pollination, fructifying, fruit development.							
II week exercises	The spread and description of some more important morphological characteristic of different types of fruiting branches and fruiting buds.							
III week lectures	Significance of varieties, assessment of variety fruitfulness and assessment of the fruit quality							
III week exercises	Short fruit bearing branches. Short fruiting woods. Long slender fruiting branches.							
IV week lectures	Summer apple varieties							
IV week exercises	Determining the yield potential of fruit trees							
V week lectures	Autumn apple varieties							
V week exercises	Practical demonstrations of pruning pome fruit species trees in the experimental field.							
VI week lectures	Winter apple varieties							
VI week exercises	Morphological and organoleptic fruit properties in the apple varieties							
VII week lectures	First test							
VII week exercises	Morphological and organoleptic fruit properties in the pear varieties							
VIII week lectures	Summer pear varieties. Make-up first test							
VIII week exercises	Morphological and organoleptic fruit properties in the quince and medlar varieties							
IX week lectures	Autumn pear varieties.							
IX week exercises	Physiological maturity. Technological maturity. lodine-starch test.							
X week lectures	Winter pear varieties.							
X week exercises	Determination of the percentage of dry matter (Brix).							
XI week lectures	Pears and apples processing. Seminar paper.							
XI week exercises	Generative and vegetative apple rootstocks.							
XII week lectures	Quince, medlar and mountain ash (sorb).							



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XII week exe	ercises	Generative and vegetative pear rootstocks.							
XIII week lec	tures	Second test							
XIII week ex	ercises	Generative and vegetative quince rootstocks.							
XIV week led	tures	Orchard establishment, land treatment, fertilization, irrigation. Fruitfulness regulation and production economy.							
XIV week ex	ercises	Generative and vegetative medlar rootstocks.							
XV week lec	tures	Make-up second test							
XV week exe	ercises	Pomotechnical measures in orchards.							
Student wo	orkload								
Per week			Per semester						
<ul> <li>7 credits x 40/30=9 hours and 20 minuts</li> <li>3 sat(a) theoretical classes</li> <li>1 sat(a) practical classes</li> <li>1 excercises</li> <li>4 hour(s) i 20 minuts</li> <li>of independent work, including consultations</li> </ul>			Classes and final exam: 9 hour(s) i 20 minuts x 16 =149 hour(s) i 20 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 9 hour(s) i 20 minuts x 2 =18 hour(s) i 40 minuts Total workload for the subject: 7 x 30=210 hour(s) 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) 42 hour(s) i 0 minuts Workload structure: 149 hour(s) i 20 minuts (cources), 18 hour(s) i 40 minuts (preparation), 42 hour(s) i 0 minuts (additional work)						
Student obligations			Lessons attendance is mandatory for students, doing both tests and the final exam as well as writing essay (seminar paper).						
Consultations			In agreement with the students						
Literature			Literature: 1.Velickovic, M. (2004) General fruit growing., 2. Veličković M. (2006): Fruit growing, National Library Beograd., 3. Bulatović, S., Mratinić, E. (1992): Biotechnological bases of fruit growing, Belgrade 4. Dr. Asen Stancevic: Pear, Nolit, 1980. 5. Dr. Asen Stancevic: Quince, medlar, hawthorn, Nolit, 1986. 6. Dr. Petar Misic: Apple, Nolit, 1985. 7 Dr. Petar Mišić: New varieties of fruit trees, Nolit, 1987. 8. Dr. Spasoje Bulatović: Contemporary fruit growing, Nolit, 1979						
Examination methods			The forms of testing and grading: student engagement: 5 points seminar paper: 5 points first and second test: 2 x 20 40 points final exam: 50 points Ocjena Broj poena: A ( $\geq$ 90 do 100 poena); B ( $\geq$ 80 do< 90); C ( $\geq$ 70 do< 80); D ( $\geq$ 60 do< 70); E ( $\geq$ 50 do< 60) F < od 50						
Special remarks									
Comment									
Grade:	F		E	D	С	В	А		
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		