

Study programme: General Agronomy				
Type and level of study: Bachelor's degree (240 ECTS) – First cycle				
Course title: General Pomology				
Lecturer: Assoc. Prof. Gorica Paunović, PhD, Radmila Ilic				
Language of instruction: English				
ECTS credits: 5				
Prerequisite:				
Semester: <i>summer</i>				
Course objective To provide knowledge of the basic principles of the life cycle of fruit trees; the effect of environmental factors; physiological basis for nutrition and cultural practices; basic propagation principles and techniques; use and development of fruit growing technologies.				
Learning outcomes The theoretical and practical fundamentals of general pomology ensure successful management of living processes in fruit trees, harmonisation between their biological traits and environmental conditions, by essentially uniting fruit trees and the environment as the basic requirement for profitable production. Knowledge of basic principles of fruit tree growth and development is a requirement for profitable fruit production, eventually resulting in maximum utilisation of the genetic potential of fruit crops and cultivars under particular agroenvironmental conditions.				
Course contents <i>Theoretical instruction.</i> Fundamentals; Fruit tree biology; Fruit tree ecology; Fruit tree propagation; Orchard management practices; Cultural practices. <i>Practical instruction.</i> Pomological classification of fruit trees; Morphological properties of fruit trees - underground system (root) and aboveground system (tree, crown units, leaf); Characteristics of growth points; Fruit-bearing shoots in pome fruits. Fruit-bearing shoots in stone fruits. Winter pruning operations in crown-like fruit trees; Fruit tree spacing on level and sloping ground; Planting; Whip-and-tongue grafting and bud grafting; Summer pruning; Assessment of orchard condition and cultural practices used.				
Recommended reading Petrović, S., Milošević, T. (2005): Raspberry from Serbia. Faculty of Agronomy, Čačak, p. 256 (ISBN 86-84383-40-0, COBISS.SR-ID=124030732). Barney, D.L., Colt, M., Robbins, J.A., Wiese, M. (1999): Growing Raspberries & Blackberries in the Inland Northwest & Intermountain West. Agricultural Publications, University of Idaho. Available at: http://info.ag.uidaho.edu Nyéki J., Soltész M., Szabó Z. (2008): Morphology, biology and fertility of flowers in temperate zone fruits. Akadémiai Kiadó, Budapest. Kozma P., Nyéki M., Szabó Z. (2003): Floral biology, pollination and fertilisation in temperate zone fruit species and grape, Akadémiai Kiadó, Budapest. Fideghelli, C., Loreti, F. (2010): Monografia dei portinnesti dei frutiferi. Centro di ricerca per la frutticoltura, Università di Pisa, p. 238.				
Hours of active teaching				Other classes
Lectures:	Practicals: 2x15=30	Other forms of teaching Tutorials 3x15=45	Individual work:	
Teaching methods Lectures, practicals (practice room and field work), interactive teaching, progress tests, midterm tests, individual work, oral examination				
Assessment (maximum points 100)				
Examination requirements	Points	Final examination		Points
Class participation	20	oral examination		
Practical sessions/tests	30	written examination		50
Grading system				
Grade	ECTS	Description		
10	91-100	Excellent		
9	81-90	Exceptionally good		
8	71-80	Very good		
7	61-70	Good		
6	51-60	Passing		
5	≤50	Failing		