1. Title of subject/module/unit			**Special Fruit Growing**				
2. Unit code	**622Z314**		**3. Number of ECTS credits**		**6**		
4. Contact hours	**Total 52**	**L 24**	**E 24**	**S**	**Other forms 5**		
5. Cycle	**Master´s**	**6. Year**	**1st**	**7. Semester**	**1st**		
8. Study programme	**International Master of Horticulture Science**		**9. Branch of study**				
10. Pillar of the programme	Compulsory		**11. Language**	Slovak / English			
12. Special features							

13. Objectives and subject-specific competences	Gaining student´s ability to realize methodology of fruit orchard establishing – practical realization and advisory service, commanding technology of the most up-to-date growing systems of all the basic fruit species. Learning outcomes – the graduate is able to project and to realize a highly intensive fruit orchard with the use of the most modern technological equipments for selected fruit species and variety.	
14. Description of content	Growing technology of selected fruit species – site selection, investments for various operations, soil preparation. Suitable rootstocks and cultivars for commercial orchards. Dates and planting techniques. gricultural operations during vegetation. Training and pruning systems. Weed elimination. Fertilizing and irrigation. Pest and disease management. Fruit picking. Modern trends in biological material outplanting. Cluster 1: Extensive and intensive fruit plantings. Intesification of fruit production. Cluster 2: Particularity of growth, yielding and trainig and pruning of fruit trees. Cluster 3: The most important pests and diseases of fruit trees. Cluster 4: Intensive growing technology of pome fruits. Cluster 5: Intensive growing technology of stone fruits. Cluster 6: Intensive growing technology of berry and stone fruits.	
15. Basic bibliografy	Pike, B. 2011. The fruit tree handbook. Green Books Dartington Space, Dartington Hall, Totnes, Devon, TQ96EN, ISBN 978-1-900322-74-4, 350pp. Lespinasse, J.-M., Leterme, É. 2011. Growing Fruit Trees - Novel Concepts and Practices for Successful Care and Management, W. W. Norton & Company, ISBN 978-0-393-73256-6, 352 pp. – Blažek, J. a kol.: Ovocnictví. Praha: Květ, 1998. ISBN 80-85362-33-3 Hričovský I. a kol.: Drobné ovocie. Príroda, Bratislava 2000. Hričovský, I a kol.: Pomológia I., Nezávislosť, Bratislava 2001 Hričovský, I a kol.: Pomológia II., Nezávislosť, Bratislava 2003 Hričovský, I. a kol.: Praktické ovocinárstvo. Bratislava: Príroda, 1990. 636 s. ISBN 80-07 00024-0	
16. Envisaged learning outcomes	*16.1 Knowledge and understanding*	Students will learn the principles of of fruit orchard establishing – practical realization and advisory service, commanding technology of the most up-to-date growing systems of all the basic fruit species.

	16.2 Application	Activities will focus on lethal and inhibitory agents in relation to extensive and intensive fruit plantings. Intesification of fruit production, particularity of growth, yielding and trainig and pruning of fruit trees, the most important pests and diseases of fruit trees, intensive growing technology of pome fruits, intensive growing technology of stone fruits, intensive growing technology of berry and stone fruits. Methods of special fruit growing will be oriented toward the future practical activities of graduate students.
	16.3 Reflection	Graduate is able to project and to realize a highly intensive fruit orchard with the use of the most modern technological equipments for selected fruit species and variety.
	16.4 Transferable skills – not tied to just one subject	This knowledge of preventing possible microbial spoilage has applications throughout the fruit growing technoligies, production of modern biological material.
17. Methods of teaching and learning	Lectures, seminars, excursion, field practices.	
18. Conditions for inclusion or to undertake work required	Enrolment in the year of the course.	
19. Methods of assessment and the assessment scale	- Written exam (100%) Evaluation scale: Grades from A (best) to FX (worst)	
20. Method of evaluation of course quality	Student questionnaire.	
21. Curriculum compiler	doc. Ing. Oleg Paulen, PhD., Slovak University of Agriculture in Nitra	