

Title	Applied Entomology		
Code	3RT07NAK01B		
Prerequisites	Botany		
Description	<p>Students learn to discriminate 8 arthropod orders and 37 families of horticultural pests, understand the biology, behaviour, and ecology of 53 key pests in horticulture. Students are expected to recognize these 53 key pest species in their adult form or based on their damage symptoms, as well as 9 larval and 3 pupal forms of holometabolous insects. Students will also understand the different tactics used in horticultural pest-management programs, understand the biology, behaviour and ecology of key natural enemies of pests, learn control tactics for managing pests and their advantages and limitations, gain an understanding of pest management in several model systems including grapevine, fruit, vegetable and ornamental crops. Recognition of these key pests and their damage symptoms will be a major part of the exam. In the second part of the exam the student will prove his/her knowledge about the management tactics of key horticultural pests.</p>		
Lecturer	Dr. Béla Péntzes, Dr. Gábor Véték, Dr. József Fail		
Semester	4th, spring	Contact hours/week	3
Level	BSc	ECTS	2+2
Teaching and Learning Methods:	Regular attendance of the lessons		
Reading:	<p>Compulsory readings: van Emden H.F. (2013): Handbook of agricultural entomology. John Wiley and Sons, Chichester, West Sussex, UK, pp. 312.</p> <p>Recommended readings: Radcliffe E.B., Hutchison W.D. and Cancelado R.E. (eds.)(2008): Integrated pest management: concepts, tactics, strategies and case studies. Cambridge University Press, Cambridge, UK, pp. 529. Peshin R. and Pimentel D. (eds.) (2014): Integrated pest management Vol. 4.: Experiences with implementation, global overview. Springer, Dordrecht, The Netherlands, pp. 574.</p>		
Assessment:	Written and oral exams		