

<b>Title</b>	Biologically active substances in horticultural species		
<b>Code</b>	3ME13NAK56M		
<b>Prerequisites</b>			
<b>Description</b>	<p>Quality of horticultural products is highly determined by their active ingredients and content of secondary compounds. Knowledge on these and basic information on diatetic considerations belongs to the well established education of horticultural engineers. During the course students get an insight in the spectrum of secondary compounds present in the wide range of horticultural crops and their products. Basic chemical constitution of the compounds, their biosynthesis and accumulation in the plants belongs to this knowledge. An additional important aspect is the way of their application, their human biological effects and eventual adverse reactions. The compounds are principally grouped according to their biogenetic relationships (saccharides, nitrogen containing compounds, terpenoids, phenolics, minerals, vitamins, etc.) and numerous plant examples are mentioned. During the practical lessons students get an insight into the laboratory analytical methodologies and their basic principles.</p>		
<b>Lecturer</b>	Éva dr. Zámoriné Németh, dr. Krisztina Szabó PhD, dr. Zsuzsanna Pluhár, PhD, dr. Szilvia Tavaszi- Sárosi, PhD, dr. Beáta Gosztola, PhD		
<b>Semester</b>	Fall	<b>Contact hours/week</b>	2+2
<b>Level</b>	MSc	<b>ECTS</b>	4
<b>Teaching and Learning Methods:</b>			
<b>Reading:</b>	<p><b>Compulsory literature:</b> The course material is provided for the students by the lecturers in electronic format.</p> <p><b>Recommended literature:</b> Evans W. C. (2009): Trease and Evans` Pharmacognosy. London, WB Saunders Company Ltd. ISBN: 978-0-7020-2933Hajós Gyöngyi</p>		
<b>Assessment:</b>	Exam		