

<b>Title</b>	Tissue culturing and micropropagation		
<b>Code</b>	3DD02NAK52M		
<b>Prerequisites</b>			
<b>Description</b>	Introduction to micropropagation and plant tissue culturing - theoretical backgrounds and practical methods. History of plant tissue culturing, plant regeneration from cells, tissues and organs, different developmental pathways - direct and indirect organogenesis and somatic embryogenesis. Biotechnology of sexual reproduction in plants. Opportunities and application in practice. Practical knowledge - media preparation, handling of laboratory equipment, starting and maintaining sterile shoot cultures, application of in vitro plant material.		
<b>Lecturer</b>	Assoc. Prof. Dr. Andrea Tilly-Mándy, Assist. Prof. Dr. István Dániel Mosonyi PhD, Dr. Máté Ördögh PhD, assistant lecturer		
<b>Semester</b>	1st, fall	<b>Contact hours/week</b>	1+2
<b>Level</b>	MSc	<b>ECTS</b>	4
<b>Teaching and Learning Methods:</b>			
<b>Reading:</b>	<p><b>Compulsory literature:</b></p> <p>- presentations of the lessons (can be downloaded from the homepage of the Department of Floriculture and Dendrology)</p> <p>George, E.F. (ed.)1993. Plant Propagation by Tissue Culture 1, 2. Exegetics Ltd., London (specified parts)</p> <p>Kyte, L., Kleyn, J. 1996. Plants from Test Tubes. Timber Press, London</p>		
<b>Assessment:</b>	exam		