

Title	Special technical knowledge		
Code	3MT17NAK18M		
Prerequisites	Basic technical knowledge, Machines in hortic. production		
Description	Among the technological elements of the horticultural technologies the subject deals with the mechanization of plantation, fertilization, irrigation, plant protection, harvesting, preprocessing, remote-sensing and precision farming. Besides explaining the function of machines and equipments, their mechanical, hydrodynamic and thermal basics are also discussed. This knowledge finally leads to reasonable machine selection for a given task. The results of latest technical developments are introduced and explained via concrete machines and equipments.		
Lecturer	Dr. Zoltán Láng, Dr. András Jung		
Semester	3rd, fall	Contact hours/week	1+2
Level	MSc	ECTS	3
Teaching and Learning Methods:			
Reading:	<p>Compulsory literature: Hegybíró M. Kurtán S., Láng Z., Nagy S., Wieser A. 2013: <i>Special Technical Knowledge in Horticulture</i>. In: Éva Németh Zámboiné, Szilvia Sárosi, Levente Horváth : Modern Horticulture. Corvinus University of Budapest, Faculty of Horticultural Science, 2013. (ISBN: 978-963-503-552-6)</p> <p>Recommended literature: - CIGR (2004): Handbook of Agricultural Engineering – Volume III. Plant Production Engineering. Published by ASAE (American Society of Agricultural Engineers) ISBN 1-892769-02-6 - Witney, B.: Choosing and using Farm Machines. Land Technology Ltd., Edinburgh, Scotland, 1996. ISBN 0582456002</p>		
Assessment:	<ul style="list-style-type: none"> • exam • PP presentation of a chosen topic 		