



Programme Plan “International Master in Horticultural Sciences”

Semester	Modules	ECTS
1 st	Compulsory modules (6 ECTS each)	30
	<ul style="list-style-type: none"> • Plant molecular physiology • Crop quality assessment • Plant biotechnology • Ecophysiological basics of urban horticulture • Seminar horticultural sciences 	
	<p>Compulsory elective modules (6 ECTS each) At least 6 ECTS have to be taken in the field of Complementary Activities! 15-45 ECTS have to be imported from one or several partner universities.</p>	60
2 nd	<p><u>Crop management</u></p> <ul style="list-style-type: none"> • Land use systems for horticultural crop • Cultivation of vegetables in tropics and subtropics • International floriculture and nursery • Food chain management • Urban horticulture – An introduction • Methods of monitoring and evaluation of technical processes in horticulture • Horticultural outdoor plant systems (decorative plants) <p><u>Economics</u></p> <ul style="list-style-type: none"> • Management in horticulture <p><u>Plant and soil biochemistry</u></p> <ul style="list-style-type: none"> • Effects of plant nutrition and other environmental factors on composition and quality of vegetable and ornamental plants • Plant nutrition and nutrient supply in environmentally friendly horticultural systems <p><u>Crop ecophysiology</u></p> <ul style="list-style-type: none"> • Physiology of woody plants and applied dendrology <p><u>Plant biotechnology</u></p> <ul style="list-style-type: none"> • Biology of generative propagation in horticulture <p><u>Complementary activities</u></p> <ul style="list-style-type: none"> • Current issues in horticulture (Field trip) 	
3 rd	<p><u>Crop management</u></p> <ul style="list-style-type: none"> • Hydroponical systems in horticulture • Development of new floricultural products • Organic farming and sustainable land use <p><u>Plant and soil biochemistry</u></p> <ul style="list-style-type: none"> • Symbiotics in plant nutrition <p><u>Plant protection</u></p> <ul style="list-style-type: none"> • Post harvest quality and stored product protection <p><u>Complementary activities</u></p> <ul style="list-style-type: none"> • Information and communication technology in horticultural science 	
	<p>Summer Schools (Two weeks during the holidays)</p> <p><u>Plant protection</u></p> <ul style="list-style-type: none"> • Lab course on selected plant pathogens/pests or control management (Summer) • Diagnosis of plant pathogens (Winter) 	
4 th	<p>Master Thesis (25 ECTS) and Colloquium (5 ECTS), supervised by home and partner university (=15 ECTS import from supervising partner university!) To receive a double degree, at least 30 ECTS from modules plus 15 ECTS from the master thesis have to be acquired from one partner!</p>	30