

# Master of Nematology: 120 credits

**A unique international course programme with lectures given by international experts in the field to students from all over the world; together with EUMAINE, the only Masters of nematology in the world**



# Master of Nematology: 120 credits

## MA<sub>1</sub>

<b>General courses</b> (compulsory) <i>(28 credits)</i>	<ul style="list-style-type: none"> <li>✓ Nematode morphology (4)</li> <li>✓ Nematode systematics and molecular phylogeny (4)</li> <li>✓ General techniques in nematology (4)</li> <li>✓ Molecular techniques in nematology (3)</li> <li>✓ Datamining, processing and managing (3)</li> <li>✓ General nematode biology and interactions (4)</li> <li>✓ Statistics (3)</li> <li>✓ Nematodes as model organisms (3)</li> </ul>			Sem 1
<b>Majors</b> 1 cluster to be chosen from 3 <i>(26-27 credits)</i>	Nematology applied to <b>agro-</b> ecosystems <i>(27 credits)</i>	Nematology applied to <b>natural</b> eco- systems <i>(27 credits)</i>	Nematode <b>systematics:</b> taxonomy, phylogeny, biodiversity <i>(26 credits)</i>	Sem 2
<b>Elective courses</b> <i>(5-6 credits)</i>				Sem 1 & 2

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<p><b>Majors</b> 1 cluster to be chosen from 3 <i>(26-27 credits)</i></p>	<p>Nematology applied to agro- ecosystems <i>(27 credits)</i></p>			<p>Sem 2</p>
	<ul style="list-style-type: none"> <li>✓ Systematics of plant-parasitic nematodes: Tylenchomorpha (6)</li> <li>✓ Virus vector families (4)</li> <li>✓ Entomopathogenic nematodes: taxonomy, biology, biocontrol (3)</li> <li>✓ Life cycle biology of the principle groups of plant-parasitic nematodes (4)</li> <li>✓ Plant nematode behaviour and physiology (3)</li> <li>✓ Molecular aspects of plant-nematode relationships (3)</li> <li>✓ Tropical plant nematology (4)</li> </ul>			

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<p><b>Majors</b> 1 cluster to be chosen from 3 <i>(26-27 credits)</i></p>		<p>Nematology applied to <b>natural</b> ecosystems <i>(27 credits)</i></p>		<p>Sem 2</p>
		<ul style="list-style-type: none"> <li>✓ Systematics of free-living aquatic nematodes (7)</li> <li>✓ Systematics of free-living terrestrial nematodes (6)</li> <li>✓ Ecology of free-living aquatic nematodes (6)</li> <li>✓ Structural and functional biodiversity (4)</li> <li>✓ Biomonitoring (4)</li> </ul>		

# MA<sub>2</sub> Master of Nematology

<b>General courses</b> (compulsory) <i>(12 credits)</i>	<ul style="list-style-type: none"> <li>✓ Biostatistics: experimental design</li> <li>✓ Strategies for research: project development and paper writing</li> <li>✓ Networking and seminars</li> </ul>	Sem 1
<b>Elective courses</b> <i>(18 credits)</i>		Sem 1 & 2
<b>Master thesis</b> <i>(30 credits)</i>		Sem 2
<ul style="list-style-type: none"> <li>✓ Quantitative plant nematology (3)</li> <li>✓ Temperate nematology (4)</li> <li>✓ Management of plant-parasitic nematodes (4)</li> <li>✓ Sustainable management tropical agro-ecosystems (3)</li> <li>✓ Data and information management (4)</li> <li>✓ Ecological modeling (4)</li> <li>✓ Aquatic toxicology and environmental risk assesment (4)</li> <li>✓ International protection of oceans and the seas (4)</li> <li>✓ Entomopathogenic nematodes: biotechnology and use in biological control (3)</li> <li>✓ Environmental ecology (10)</li> <li>✓ Soil pollution and soil protection (9)</li> <li>✓ Scientific communication in English (5)</li> </ul>		