

<b>Title</b>	<b>Monitoring and management of allergenic plants</b>						
<b>Code</b>	ZDIA44						
<b>Study Program</b>	Postgraduate Interdisciplinary University Programme Environment protection and Nature Conservation						
<b>Semester</b>	III.						
<b>ECTS</b>	5						
<b>Status</b>	elective						
<b>Lecturer</b>	Dr. Sc. Edita Štefanić, full professor						
<b>Co-Lecturers</b>	-						
<b>Requirements for Enrolment</b>	No prerequisites						
<b>Objectives</b>	Get acquainted students with most important allergenic plants, research methods and forecast models in aerobiology, present effective strategies of their control						
<b>Learning Outcomes</b>	<p>After completing the module, student will be able to:</p> <ol style="list-style-type: none"> <li>1. identify allergenic plants in Republic of Croatia</li> <li>2. interpret phenology of allergenic plants</li> <li>3. distinguish and compare influence of meteorological parameters on pollen presence in the air</li> <li>4. evaluate passive transport of biological particles in the air</li> <li>5. explain the structure of pollen grains</li> <li>6. distinguish pollen grains under microscope and statistically analyze and present results</li> <li>7. apply appropriate methodology and create pollen calendars</li> <li>8. create and select economically acceptable program of management of allergenic plants</li> </ol>						
<b>Connection between Learning Outcomes, Curricular and Student Activities</b>	<b>Student Activities</b>	<b>ECTS</b>	<b>Learning Outcomes</b>	<b>Curricular Activities</b>	<b>Methods of Assessment</b>	<b>Credits*</b>	
						<b>min</b>	<b>max</b>
	Attendance to the lectures and active contribution		1-8	lectures	notification	5	10
	Attendance to practical work and active contribution		3,5,6,7,8	Practical work	Notification, Practical work	20	40
	Preparing for written exam and practical work		1-8	Written exam and practical work	Written exam and practical work	10	20
	Preparing for oral exam		1-8	Final exam	Oral exam	15	30
	<b>Total</b>					<b>50</b>	<b>100</b>
Criteria: From 60 to 70 points – grade 2 From 70 to 80 points – grade 3 From 80 to 90 points – grade 4 From 90 to 100 points – grade 5							
<b>Consultations</b>							
<b>Learning Activities</b>	<b>Lectures</b>		<b>Seminars</b>		<b>Practice</b>		
<b>Hours</b>	50%		-		50%		

<b>Contents / Teaching Units</b>	<ol style="list-style-type: none"> <li>1. Allergenic plants in Republic of Croatia, systematics, spread and phenology</li> <li>2. Principles of passive transport of biological particles in the air</li> <li>3. Structure of biological particles (pollen grains and spores)</li> <li>4. Methods, microscopy and presentation of results</li> <li>5. Forecast models</li> <li>6. Presentation and analysis of the results</li> <li>7. Management of allergenic weeds</li> </ol>
<b>Obligatory Literature</b>	<ol style="list-style-type: none"> <li>1. Grant Smith, E. (1990.): Sampling and identifying allergenic pollens and molds. San Antonio, Texas</li> <li>2. Moore, P.D., Webb, J.A., Collins, M.E. (1983): Pollen analysis. Blackwell Scientific Publications.</li> <li>3. Mandrioli, P., Comtois, P., Levizziani (Eds.)(1998): Methods in Aerobiology. Pitagora Editrice, Bologna</li> <li>4. Regione Emilia-Romagna (1994): Monitoraggio aerobiologico in Emilia-Romagna, contributi 30, Unita' Sanitaria Locale n.31-Ferrara.</li> </ol>
<b>Recommended literature</b>	<ol style="list-style-type: none"> <li>1. Winkler, H., Ostrowski, R., Wilhem (1993): Pollenbestimmungsbuch der Stiftung Deutscher Polleninformationsdienst.TAKT- Verlag</li> <li>2. British Aerobiology Federation (1995): A guide to trapping pollen and spores. ISBN 0-9525617-0-0</li> <li>3. Ahrens, C.D. (1999): Meteorology Today: An Introduction to Weather, Climate and the Environment. Brookes &amp; Cole..</li> </ol>
<b>Requirements for Aquiring Signature</b>	Students are obliged to attend lectures and do a practical work
<b>Type of Exam</b>	Lecturer continuously evaluate student's work and activity which brings 70% of total score together with practical work and written exam. Oral exam brings 30% of final grade.
<b>Lectures Language</b>	Lectures are delivered in Croatian language, it is possible to teach in English language
<b>Quality Monitoring</b>	Evaluation of teacher's work and through anonymous student survey.