Course: Phytopharmacy										
	Semester	ECTS Teaching hour								
	V	5	3L + 1P							
Basic undergraduate academic studies: Plant production (6 semester, 180 ECTS)										
Course description										
Introducing students to the basic concepts of pesticides, as well as issues related to their application, movement in the environment and the legal basis related to pesticides trade. Also, introduction to pesticide active substances that are on the list of permitted for use in agriculture and other areas. The aim of the course is to instruct students on personal and collective protection in the application of pesticides, as well as measures to be taken in case of their										
inadequate application.										
Learning outcomes										
<ul> <li>After passing the exam, the student will acquire knowledge that allows him to:</li> <li>Define different groups of pesticides with special reference to plant protection products</li> <li>Know the physical and chemical properties of pesticides and the formulations that are applied</li> <li>Describe the mechanisms of pesticides action and all the basic groups of fungicides, insecticides and herbicides and active substances that are classified by groups</li> <li>acquire knowledge on the basic regulations related to plant protection products in the European</li> </ul>										
Union and Montenegro										
Choose protective equipment for working with pesticides and know their impact on human health										
and the e	nvironment									
Calculate	the dose and co	ncentration of applied fungicides, inse	cticides and herbicides							
Lecturer	Prof. Nedeljko La	INOVIC, PND	minoro							
Learning r	nethous: Lecture	es, Laboratory practice, Fleid work, Se	minars							
		Introduction Aroos of posticidos and	light protection							
Т week	Lectures	production. Areas of pesticides application. Plant protection products. Control of vector-borne diseases								
	Practicum	Instructions for the application of plant protection products								
II week	Lectures	Classification and nomenclature of pesticides								
	Practicum	Calculation of water consumption for treatment								
III week	Lectures	Physical and chemical properties of pesticides								
	Practicum	Dose and concentration calculation								
IV week	Lectures	Forms of pesticide formulation. Integ	rated plant protection							
	Practicum	Organizing the treatment of field cro	DS							
V week	Lectures	Mode of action of pesticides								
	Practicum	Organizing the treatment of vegetable crops								
VI week	Lectures	Mode of action of pesticides								
	Practicum	Organizing the treatment of vegetable crops								
VII week	Lectures	Fungicides								
	Practicum	Organizing orchard treatment								
VIII week	Lectures	Fungicides, bactericides								
	Practicum	Organizing orchard treatment								
IX week	Lectures	Zoocides								
	Practicum	Organizing vineyard treatment								
X week	Lectures	Zoocides. Plant protection products in organic agriculture. Pesticides and bees								
	Practicum	Use of protective equipment	Use of protective equipment							
XI week	Lectures	Herbicides								
	Practicum	Handling of devices for application of plant protection products								
XII week	Lectures	Herbicides								
	Practicum	Field practice								
XIII week	Lectures	Legal bases of production, trade and	application of pesticides							
	Practicum	Legislation in the field of plant protection products								
XIV week	Lectures	Pre-harvest interval. MRL. Consequences of pesticide application.								
	Practicum	Field practice	· · · ·							

XV week	Lectures	Pesticio	Pesticide toxicology and first aid.					
	Practicum	Field pr	actice					
Literature: Matthews, G. (2016): Pesticides - Health, Safety and the Environment (sec. ed.).								
Wiley Blackwel, UK; O'Connor-Marer, P.J (2000): The Safe and Effective Use of Pesticides.								
University of California, Oakland, California; Material from Internet; Lectures presentation.								
Forms of knowledge assessment and grading:								
Activities in lectures and exercises: 5 points								
Seminar paper: 5 points								
Two colloquia: 40 points								
Final exam: 50 points								
A passing grade is obtained if at least 50 points are accumulated cumulatively								
Grading		А	В	С	D	E		
Number o	f points	90-100	80-89	70-79	60-69	50-59		
Data prepared by Prof. dr Nedeljko Latinović								