

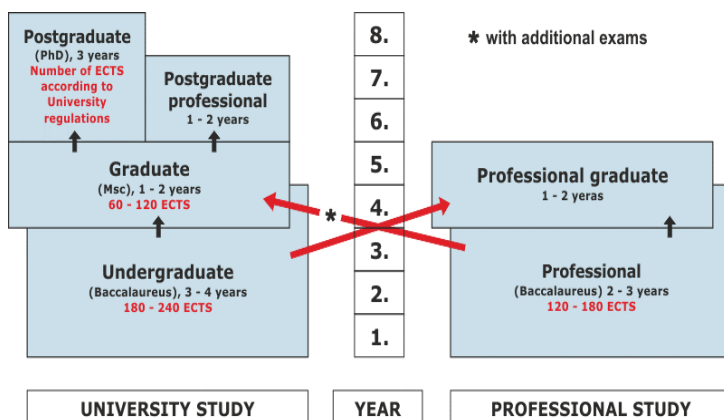


Josip Juraj Strossmayer University of Osijek  
**Faculty of Agrobiotechnical  
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**The review of the PhD study  
program  
Plant Protection in Osijek**

WP1 Ivana Majić



## FAZOS and Bologna declaration



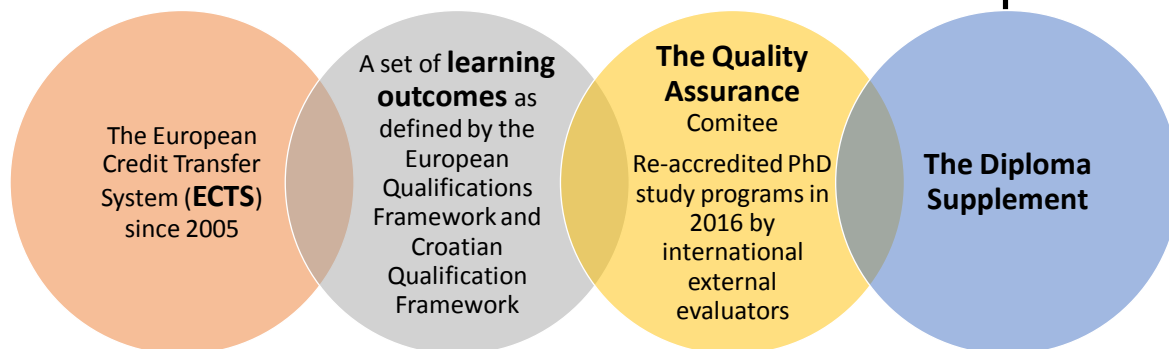
Comparable three-cycle degree structure:

- Bachelor
- Master
- Doctoral

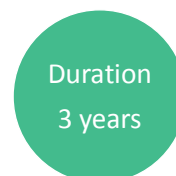
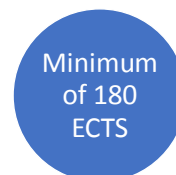
Internationally recognized



# FAZOS adopted all central tools in Bologna process



## Postgraduate doctoral studies AGRICULTURAL SCIENCES





# Structure

Activity	Number of credits (ECTS)	
	min	max
<i>Obligatory group of activities</i>	140	-
1. Obligatory courses (2)	12	12
2. Elective courses (min 5)	18	60
3. Research work	60	100
4. Presentation of scientific work	10	30
5. Dissertation	40	40
<i>Additional group of activities</i>		
6. Professional activities	-	10
7. Teaching activities	-	30
<b>Minimum of 180</b>		



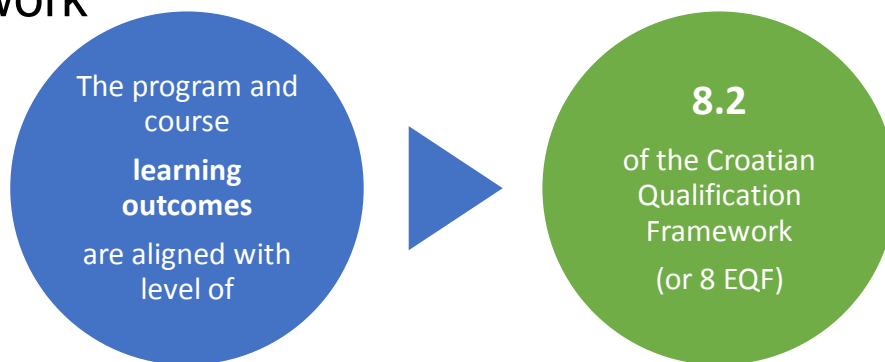
## Learning outcomes of the study program at FAZOS

After completing the major Plant Protection, student will be able to:

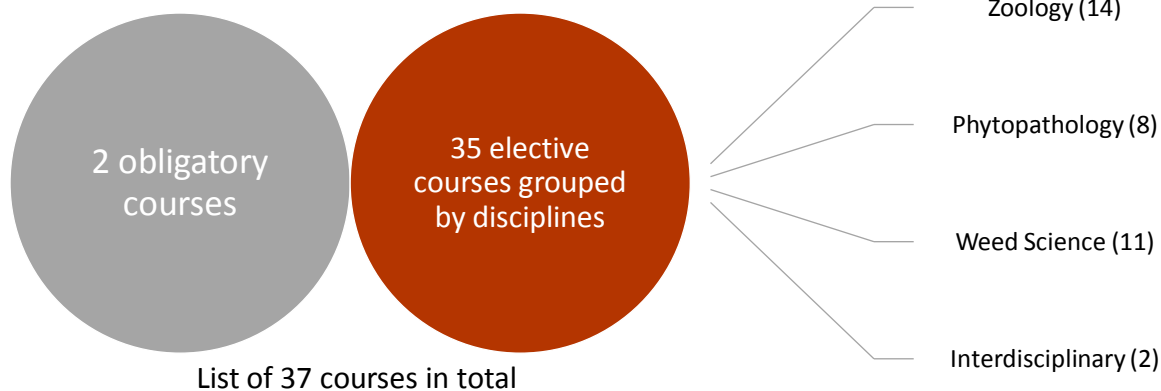
1. Demonstrate the mastery of skills to critically apply range of existing theories, methods and tools in plant protection
2. Create a plan for protection of agricultural crops based on the principles of integrated and ecological pest management
3. Identify and evaluate the key environmental factors important for management of weeds, diseases and pests
4. Select and develop the most appropriate methods for monitoring of weeds, pathogens and pests
5. Recognize and identify allergenic plants, quarantine organisms, and beneficial invertebrates
6. Recognize and explain the risks of pesticides for humans, animals, and impact on environment
7. Demonstrate the ability to conceive, design and conduct research work with scholarly integrity
8. Demonstrate the intellectual independence to publish and present results of the research work related to plant protection



# Compliance with the European Qualification Framework



## FAZOS offers



## Obligatory courses

Courses	ECTS
Principles of Scientific Work in Plant Protection	6
Ecology in Plant Protection	6
<b>Total 2</b>	<b>12</b>



# Zoology

## Elective courses

Courses	ECTS
Morphology and Physiology of Insects	2
Systematic Entomology	2
Entomology in Crop Science	4
Entomology in Horticulture	4
Insect Pests of Orchards and Vineyards	4
Stored Product Pests	3
Control Methods of Stored Product Pests	2
Plant Resistance to Pests	2
Urban Entomology	2
Quarantine Pests	1
Acarology	2
Ecology of Nematodes	2
Nematology	4
Zoocides	4





# Weed Science

Elective  
courses

Courses Weed Science	ECTS
Herbology	4
Special Herbology	4
Weed Science in Crop Production	4
Herbicides	2
Herbicide-Soil-Plant Interaction	1
Application and Legislation of Pesticides	2
GMO in Plant Protection	2
Weed Science in Orchards and Vineyards	4
Weed Science in Horticulture	4
Weed Communities in Crop Production	2
Allergenic Weeds	2
<b>Total 11</b>	<b>31</b>



# Phytopathology

Elective  
courses

Courses	ECTS
Laboratory Methods in Mycology	2
Quarantine Diseases	1
Seed Diseases	2
Phytopathology in Horticulture	4
Phytopathology in Crop Production	4
Toxic Fungi and Mycotoxins	2
Diseases of Orchards and Vineyards	4
Soil Microbiology	4
<b>Total 8</b>	<b>23</b>

# Interdisciplinary

Elective  
courses

Courses	ECTS
Plant Protection in Ecological Agriculture	4
Toxicology and ecotoxicology	2
<b>Total 2</b>	<b>6</b>



# List of completed PhD thesis in the last 10 yrs

	Discipline
<b>Plant substances and inert dusts – natural insecticide formulations in storage insect control</b>	Entomology
<b>The influence of abiotic factors on life traits of European corn borer (<i>Ostrinia nubilalis</i> Hubner)</b>	Entomology
<b>Pear shoot sawfly (<i>Janus compressus fabricius</i>) - life cycle, biological and morphological characteristic</b>	Entomology
<b>Endoparasitic nematodes of genus <i>Pratylenchus</i> on soybean</b>	Nematology
<b>Characterization of pathotypes <i>Passalora fulva</i> (Cooke) the agent of tomato leaf mould in Croatia</b>	Phytopathology
<b>Morphological and molecular identification of <i>Fusarium</i> species and their pathogenicity for wheat</b>	Phytopathology
<b>In vitro antifungal activity of essential oils and their components on phytopathogenic fungi</b>	Phytopathology
<b>Allergenic weeds in Istria and possibilities of weed control</b>	Weed science
<b>Invasive plant species of the Požega valley</b>	Weed Science





