

# 6th meeting on 598444-EPP-1-2018-1-HR-EPPKA2-CBHE-JP project " Harmonization and Innovation in PhD Study Programs for Plant Health in Sustainable Agriculture – HarISA “

**Tirana/Durres, 29-30 March 2022**

## **WP 3 – 6th MEETING**

### **WP3 Leaders:**

**1. Dr Eustachio Tarasco, Associate Professor,**

University “Aldo Moro” Bari, Italy [eustachio.tarasco@uniba.it](mailto:eustachio.tarasco@uniba.it)

**2. Dr Aleksandra Ignjatović- Ćupina, Associate Professor**

University of Novi Sad, Faculty of Agriculture, Serbia, [cupinas@polj.uns.ac.rs](mailto:cupinas@polj.uns.ac.rs)

## AGENDA

1. Acceptance of the Minutes of the 5th WP3 Meeting , 19<sup>th</sup> January, 2021
2. Improving the scientific contents
  - 2.1. Development of course syllabus (tasks/outcomes 3.2; 3.3; 3.4 ):  
*Identifying the missing issues and gaps in the course syllabus; Book of teachers (CVs) – 29/03/2022, WP3: 9:30-10:30, 11:00-12:00;  
WP2+WP3: 15:00-16:30  
30/03/2022 WP2+WP3: 11:30-13:30*
  - 2.2. Providing and uploading materials to the web page (task/outcome 3.5):  
*Presentation of the teaching material data base, discussion on the future activities- administration of the database - 29/03/2022, WP3: 12:00-13:30*
3. Scientific conference organization (task/outcomes 3.6):  
*Preparation of the conference in Novi Sad, defining the participants, topics, sections... 30/03/2022, WP3: 8:00-10:00*

## APPOINTMENT OF THE MINUTE-TAKER SECRETARY OF THE WP3 MEETING



## ....before starting, please, fill the **List of attendance:**

- **Name, family name**
- **Institution** (Partner Institution or other):
- **e- mail address**
- **Signature**



# 1. Acceptance of the Minutes of the 5th WP3 Meeting , 19<sup>th</sup> January, 2021

Minutes were sent to all participants by Maja Čačija on January 28th 2021

## 2.1. Development of course syllabus

*Identifying the missing issues and gaps in the course syllabus; Book of teachers (CVs)*

*29/03/2022, WP3: 9:30-10:30, 11:00-12:00;*

*WP2+WP3: 15:00-16:30*

*30/03/2022 WP2+WP3: 11:30-13:30*

SGs	COURSES	STATUS
1. Diagnosis in plant health and IPM	1. Advanced diagnostic methods and techniques for detection of prejudicial and beneficial organisms	Elective
	2. Integrated approach to surveillance of prejudicial organisms affecting plant health	Elective
	3. Control of quarantine prejudicial organisms, managing of non-native beneficial organisms and evaluation of risk assessment based on EU protocols	Elective
2. Sustainable use of pesticides	1. Plant Protection Products in Sustainable Agriculture	Elective
	2. Environmental fate of pesticides	Elective
	3. Toxicology and Ecotoxicology of pesticides	Elective
3. Plant feeders	1. Advanced techniques in plant feeders	Elective
	2. Frontiers in invertebrate pest and resistance management	Elective
	3. Advanced invertebrate pathology	Elective
	4. Invasive alien pests (Alien species invasion: selected events)	Elective
	5. Vectors of plant pathogens	Elective
	6. Integrated Management of urban pests	Elective
4. Plant pathology	1. Molecular Plant Microbe Interactions	Elective
5. Weed science	1. Weed management in precision agriculture	Elective
	2. Modelling in Weed Science	Elective
	3. Invasive plant species	Elective
6. Mycotoxins and food safety	1. Mycotoxins and food safety	Elective
7. General contents of transversal interest	1. Principles of Scientific Work in Bio-science <b>*Antonio Ippolito (UNIBA), Sava Vrbničanin (UB), Zrinka Knezović (SVEMO)</b>	<b>Mandatory</b>
	2. Bio-diversity and bio-indicators in sustainable agriculture	Elective
	3. GIS & Spatial Data Analysis	Elective
	4. Bio-informatics <b>*-Jasmin Grahić</b>	<b>Mandatory</b>
	5. Knowledge and management of research funding systems <b>*Renata Bažok (FAZ), Nedeljko Latinović (UoM)</b>	<b>Mandatory</b>
<b>*syllabus still missing</b>		

## WP2 document: *Regulation of International Joint PhD program in PHiSA, Art. 9*

TYPE OF ACTIVITY	ECTS IN TOTAL		
Teaching activities	<b>min. 28; max.60</b>	Mandatory general topics (SG7)	<b>8-10</b>
		Elective courses	<b>20-50</b>
Research :	<b>min. 120; max 152</b>		
<b>TOTAL</b>	<b>180</b>		<b>28-60</b>

### QUESTIONS:

1. How many courses (mandatory and elective) should be included in the study program structure?
2. What number of ECTS should be allocated to each course (mandatory and elective)?
3. How many workload hours (lectures; student`s research work, and/or other student`s activities ) to allocate to each course (mandatory and elective)?





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**1 ECTS= 25 hours of active work**

**1 semester =15 weeks**

x25					:15
No. of ECTS	Hours in total	Lectures (total hours)	Other activities (total hours)	Average number of workload hours weekly	
3	75	20	55	5	
4	100	30	70	6.67	
5	125	40	85	8.33	
6	150	50	100	10.00	

— Mandatory courses  
— Elective courses

**Lectures (= contact hours):** teoretical lessons, practical lessons, seminars etc

**Other activities of students :** preparation for exam, literature research, preparation of seminars etc.

## WP2+WP final 3 decision:

TYPE OF ACTIVITY	ECTS IN TOTAL		
Teaching activities	<b>min. 25</b>	Mandatory general topics (SG7)	<b>10</b>
		Elective courses	<b>min 15</b>
Research :	<b>max. 155</b>	Active participation to conferences, trainings etc.	5-10
<b>TOTAL</b>	<b>180</b>		

Courses	Number of courses	ECTS/ course	Workload Lectures+Other activities
Mandatory (3 courses)	1. Principles of Scientific Work in Bio-science	3	20+55=75
	2. Bio-informatics	3	20+55=75
	3. Knowledge and management of research funding systems	4	30+70=100
Elective	Other courses –option a)	3	20+55=75 (L=26.6%)
TOTAL	-option b)	4	30+70=100 (L=30%)
	- option c)*	5	40+85=125 (L=32%)

\* In cases of complexive, multidisciplinary courses , such as in SG4

# Course syllabus-template

Study program		International joint study PhD study program in Plant Health for Sustainable Agriculture	
Course title		done	
Course code		= course acronym	
Course leader		1 or 1-2	
Responsible PI University/Faculty/Department/Country		done, updated	
Other teachers and related PIs (University University/Faculty/Department/Country)		Other teachers done, updated	
Credits (ECTS)	choose: 3 or 4 (or max 5)	Course status	Mandatory or Elective
Specific entry requirements	none		
Aim of the course and student`s competences	done		
Learning outcomes	done		
Course content: done			
<i>Theoretical lessons;</i>  <i>Practical lessons</i>  <div style="text-align: right;"><i>...Narratively</i></div> <div style="text-align: left;">done</div>			
Literature and other learning material : done			
1. 2. 3. etc			

<b>Number of classes (=workload of students)</b> (Total hours = Number of ECTSx25; to divide in Lectures and Other activities according the instruction table in previous slide )			
<b>Lectures</b> (teoretical , practical lessons, seminars = contact hours): (e.g. 20*)	Student research work: -		<b>Other activities</b> (preparation for exam, literature research, preparation of seminars etc): (e.g. 55*)
<b>Teaching methods:</b> PPT presentations, other didactic tools, demonstrations in field and laboratory, seminars/round tables/workshops			
<b>Evaluation (max. 100 points)</b>			
Pre-exam obligations	Points	Final exam	Points
Activity during lectures (=active class participation)	15	Written exam	20
Practical classes (= Practical work)	15	Oral exam	20
Colloquium (= preliminary exam)			
Seminar papers (=Seminar/s)	30		
<b>A way to form a final grade:</b> <b>Final grade - formed based on the sum of acquired points, with the minimum of 11/20 required points for both written and oral exam.</b>			

\* example for a course with 3ECTS

Deadline for duty: end of April 2022

All course syllabus drafts, sorted by SG and course were sent by e-mail to WP3- PI representatives on March 16<sup>th</sup> 2022

To be checked one by one

Book of **teachers** -  
template

Deadline for duty:  
end of April 2022

Name, family name				
Title				
Scientific discipline				
Academic career				
	Year	Institution	Scientific Field	Scientific Discipline
Election to the last position				
Doctorate				
Master of Science				
Bachelor Diploma				
The list of courses carried out by the teacher in doctoral studies				
	Course code (= course acronym)	Course title	Name of the study program, the type of study	
1.				
2.				
3.				
Representative references (minimum 10 no more than 20)				
1	To include DOI; and link to reference			
2				
3				
Summary data of scientific and professional activities of teacher				
Total number of citations		Scopus		
The total number of papers in SCI journal list				
Current participation in projects :		National: total number	International : total number	
Specialization/trainings				
Other relevant information:				
Member of Editorial boards, membership in scientific associations, language skills etc				

## 2.2. Providing and uploading materials to the web page (task/outcome 3.5):

*Presentation of the teaching material data base,  
discussion on the future activities- administration  
of the database –*

*29/03/2022, WP3: 12:00-13:30*

## Expected Deliverable/Results/Outcomes

Work Package and Outcome ref.nr.: **3.5.**

Title: **Jointly prepared teaching material**

Type: teaching material, learning material

Due date: **15.10.2021.**

Languages: English, Croatian, Serbian, Italian, Bulgarian, Bosnian, Albanian,  
Greek, Montenegrin

Target groups: Teaching staff

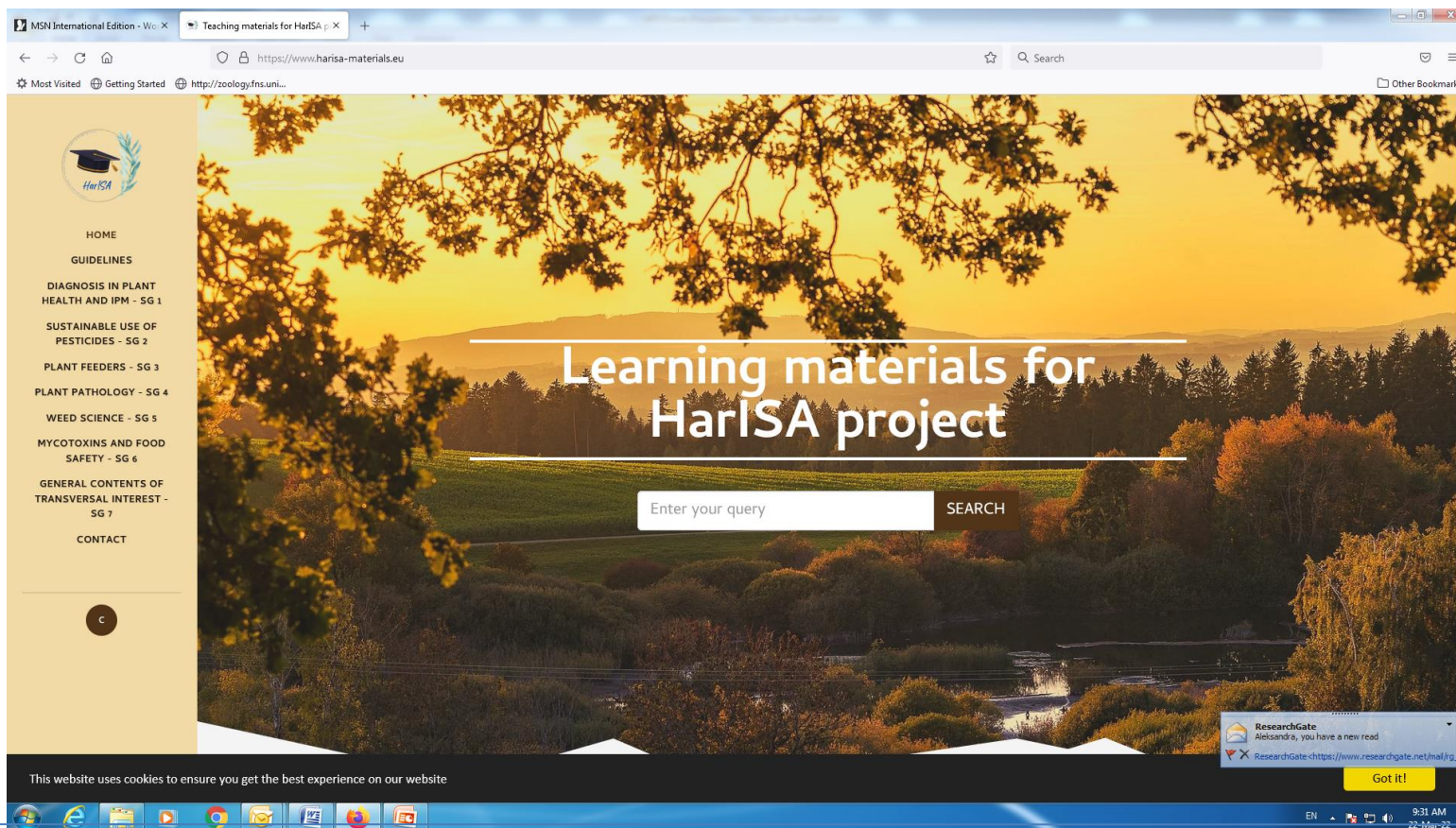
Dissemination level: Department/Faculty, Institution, Regional, National, International

### Description:

- The **common teaching material** in a form of **ppts, textbooks, multimedia**, etc, will be developed for the courses that are similar and taught at different PIs.  
The material will be developed in English and in national languages (if needed).



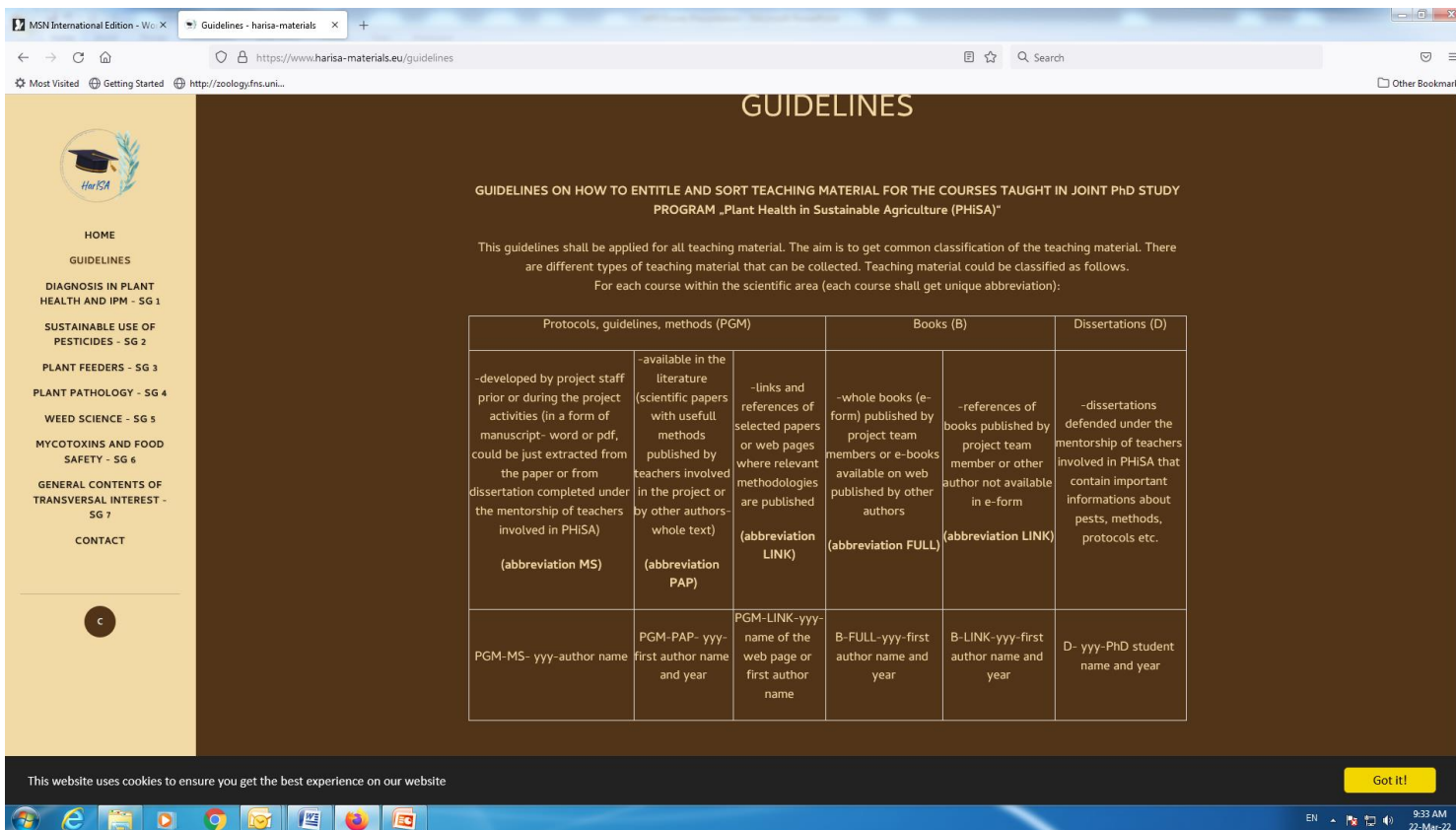
<https://www.harisa-materials.eu/>



The screenshot shows the HarISA website interface. The main header features a large landscape image with the text "Learning materials for HarISA project" overlaid. Below the title is a search bar with the placeholder text "Enter your query" and a "SEARCH" button. On the left side, there is a navigation menu with the following items: HOME, GUIDELINES, DIAGNOSIS IN PLANT HEALTH AND IPM - SG 1, SUSTAINABLE USE OF PESTICIDES - SG 2, PLANT FEEDERS - SG 3, PLANT PATHOLOGY - SG 4, WEED SCIENCE - SG 5, MYCOTOXINS AND FOOD SAFETY - SG 6, GENERAL CONTENTS OF TRANSVERSAL INTEREST - SG 7, and CONTACT. The website also includes a cookie notice at the bottom stating "This website uses cookies to ensure you get the best experience on our website".



<https://www.harisa-materials.eu/>



**GUIDELINES**

GUIDELINES ON HOW TO ENTITLE AND SORT TEACHING MATERIAL FOR THE COURSES TAUGHT IN JOINT PhD STUDY PROGRAM „Plant Health in Sustainable Agriculture (PHISA)“

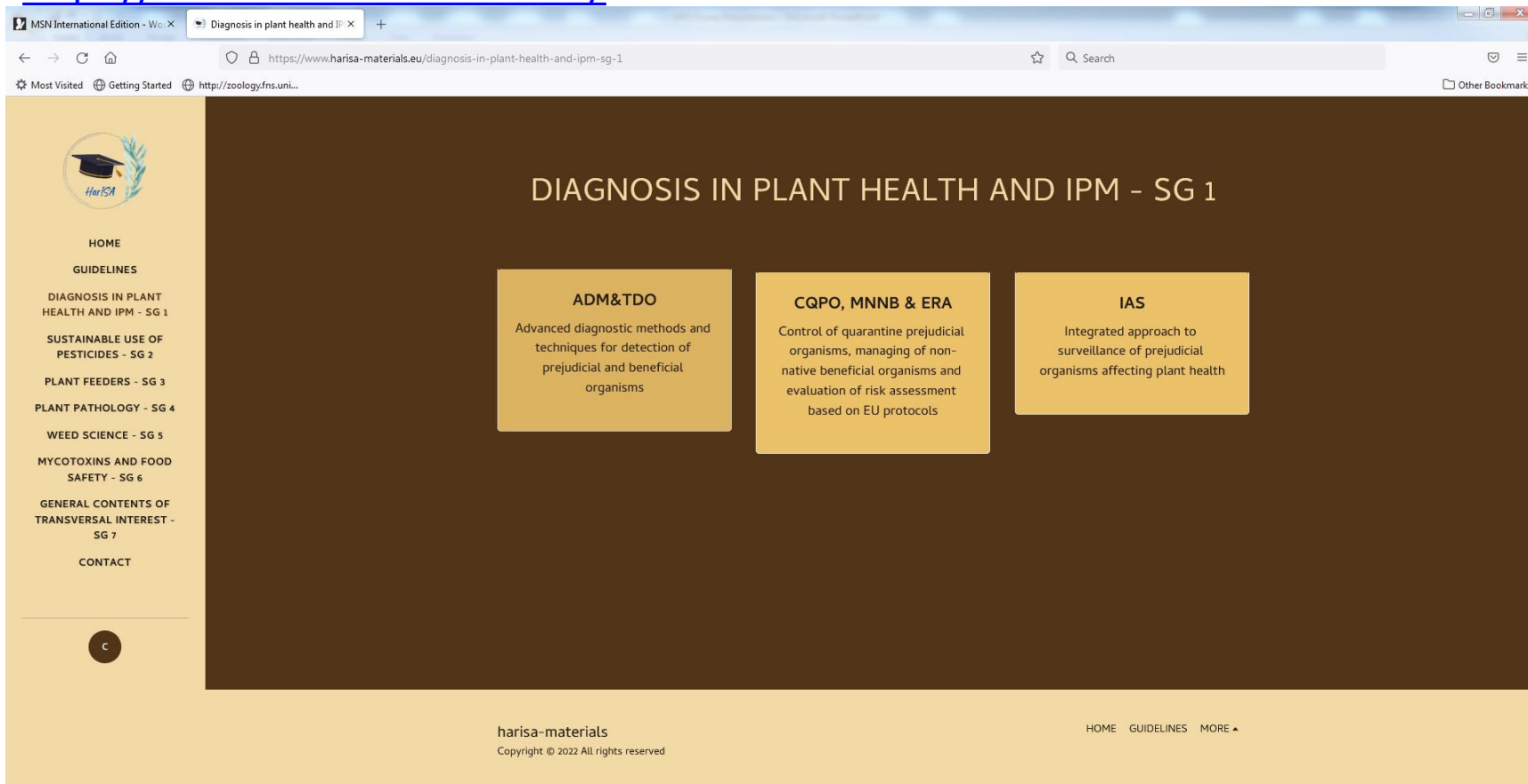
This guidelines shall be applied for all teaching material. The aim is to get common classification of the teaching material. There are different types of teaching material that can be collected. Teaching material could be classified as follows.

For each course within the scientific area (each course shall get unique abbreviation):

Protocols, guidelines, methods (PGM)	Books (B)	Dissertations (D)
-developed by project staff prior or during the project activities (in a form of manuscript- word or pdf, could be just extracted from the paper or from dissertation completed under the mentorship of teachers involved in PHISA)  (abbreviation MS)	-available in the literature (scientific papers with usefull methods published by teachers involved in the project or by other authors- whole text)  (abbreviation PAP)	-links and references of selected papers or web pages where relevant methodologies are published  (abbreviation LINK)
-whole books (e-form) published by project team members or e-books available on web published by other authors  (abbreviation FULL)	-references of books published by project team member or other author not available in e-form  (abbreviation LINK)	-dissertations defended under the mentorship of teachers involved in PHISA that contain important informations about pests, methods, protocols etc.
PGM-MS- yyy- author name	PGM-PAP- yyy- first author name and year	PGM-LINK- yyy- name of the web page or first author name
B-FULL- yyy- first author name and year	B-LINK- yyy- first author name and year	D- yyy- PhD student name and year

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<https://www.harisa-materials.eu/>



The screenshot shows a web browser window displaying the HarISA website. The browser's address bar shows the URL <https://www.harisa-materials.eu/diagnosis-in-plant-health-and-ipm-sg-1>. The website has a dark blue header with the title "DIAGNOSIS IN PLANT HEALTH AND IPM - SG 1". Below the header, there are three main content boxes: "ADM&TDO" (Advanced diagnostic methods and techniques for detection of prejudicial and beneficial organisms), "CQPO, MNNB & ERA" (Control of quarantine prejudicial organisms, managing of non-native beneficial organisms and evaluation of risk assessment based on EU protocols), and "IAS" (Integrated approach to surveillance of prejudicial organisms affecting plant health). A left sidebar contains a navigation menu with links to HOME, GUIDELINES, and various SG (Specialized Group) topics. The footer includes the text "harisa-materials" and "Copyright © 2022 All rights reserved".

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HOME

GUIDELINES

DIAGNOSIS IN PLANT  
HEALTH AND IPM - SG 1

SUSTAINABLE USE OF  
PESTICIDES - SG 2

PLANT FEEDERS - SG 3

PLANT PATHOLOGY - SG 4

WEED SCIENCE - SG 5

MYCOTOXINS AND FOOD  
SAFETY - SG 6

GENERAL CONTENTS OF  
TRANSVERSAL INTEREST -  
SG 7

CONTACT

C

### Teaching materials:

#### 1. Protocols, guidelines, methods (PGM)

PGM-MS-yyy-author	PGM-PAP-yyy-first author name	PGM-LINK-yyy-name of the web page or first author name

#### 2. Books

Whole books (e-form) = B-FULL-yyy-first author name and year	References of books (not available in e-form) = B-LINK-yyy-first author name and year

#### 3. Dissertations = D-yyy-PhD student name and year

SG1	COURSES (3)	1. Protocols, guidelines, methods	2. Books	3.Dissertations
Diagnosis in plant health and IPM:	<b>ADM&amp;TDO</b> - Advanced diagnostic methods and techniques for detection of prejudicial and beneficial organisms	-	-	-
	<b>IAS</b> - Integrated approach to surveillance of prejudicial organisms affecting plant health	<b>+16</b>  Developed by PI : 0 Available in literature: 16 Links: 0	<b>+ 4</b>  Whole books: 3 References : 1	-
	<b>CQPO, MNNB &amp; ERA</b> - Control of quarantine prejudicial organisms, managing of non- native beneficial organisms and evaluation of risk assessment based on EU protocols	-	-	-

SG2	COURSES (3)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
Sustainable use of pesticides	<b>PPPSA</b> - Plant Protection Products in Sustainable Agriculture	-	-	-
	<b>EFP</b> - Environmental fate of pesticides	<b>+ 10</b>  Developed by PI Authors : 0 Available in literature : 7 Links: 3	-	-
	<b>TEP</b> - Toxicology and Ecotoxicology of pesticides	<b>+3</b>  Developed by PI Authors : 1 Available in literature : 0 Links: 2	<b>+2</b>  Whole books: 2 References : 0	-

SG3	COURSES (6)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
Plant feeders	<b>ATPF</b> - Advanced techniques in plant feeders	-	<b>+1</b>  Whole books: 1 References: 0	<b>+1</b>
	<b>FIPRM</b> - Frontiers in invertebrate pest and resistance management	<b>+3</b>  Developed by PI : : 3 Available in literature: 0 Links: 0	-	-
	<b>AIP</b> - Advanced invertebrate pathology	-	-	-

SG3	COURSES (6)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
Plant feeders	<b>IAP</b> - Invasive alien pests <b>Alien species invasion: selected events</b>	-	-	-
	<b>VPP</b> -Vectors of plant pathogens	-	-	<b>+1</b>
	<b>IMUP</b> -Integrated Management of urban pests	<b>+9</b>  Developed by PI : 6 Available in literature: 2 Links: 1	-	-



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SG4	COURSES (1)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
Plant pathology	<b>MPMI-</b> Molecular Plant Microbe Interactions	-	-	-



ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ



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SG5	COURSES (3)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
Weed science	<b>WMPA</b> - Weed management in precision agriculture	<b>+12</b>  Developed by PI : 0 Available in literature: 2 Links: 10	<b>+2</b>  Whole books: 2 References : 0	<b>+2</b>  (external)
	<b>MWS</b> - Modelling in Weed Science	-	-	-
	<b>IPS</b> - Invasive plant species	<b>+2</b>  Developed by PI : 0 Available in literature: 2 Links: 0	<b>+8</b>  Whole books: 8 References : 0	-



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SG6	COURSES (1)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
Mycotoxins and food safety	<b>MFS</b> - Mycotoxins and food safety	-	-	-



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SG7	COURSES (5)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
General contents of transversal interest	<b>PSWB</b> - Principles of Scientific Work in Bio-science	-	-	-
	<b>BD&amp;BI</b> - Bio-diversity and bio-indicators in sustainable agriculture	-	-	-
	<b>GIS &amp; SDA</b> - GIS & Spatial Data Analysis	-	-	-

SG7	COURSES (5)	1. Protocols, guidelines, methods	2. Books	3. Dissertations
General contents of transversal interest	<b>BINF</b> - Bio- informatics	-	-	-
	<b>KMRFS</b> - Knowledge and management of research funding systems	-	-	-

TOTAL	COURSES	1. Protocols, guidelines, methods	2. Books	3. Dissertations
SG1	3	16	4	-
SG2	3	13	2	-
SG3	6	12	1	2
SG4	1	-	-	-
SG5	3	14	10	2
SG6	1	-	-	-
SG7	5	-	-	-
<b>SG1-SG7</b>	<b>22</b>	<b>55</b>	<b>17</b>	<b>4</b>

### 3. Scientific conference organization (task/outcomes 3.6):

*Preparation of the conference in Novi Sad,  
defining the participants, topics, sections...  
30/03/2022, WP3: 8:00-10:00*

## Expected Deliverable/Results/Outcomes

Work Package and Outcome ref.nr.: **3.6.**

Title: **Scientific conference organization**

Type: event, report

Due date: **15.10.2021.**

Languages: English, Croatian, Serbian, Italian, Bulgarian, Bosnian, Albanian, Greek, Montenegrin

Target groups: Teaching staff, Students, Administrative staff, Others (Stakeholders who are interested in results of specific research topics will be presented at the conference; scientists interested in wider research field)

Dissemination level: Department/Faculty, Regional, National, International

### Description:

➤ At the end of the activity, the **scientific conference in Novi Sad** (October 2021) will be organized.

- PhD students will present their research results.
- The newly developed courses will be presented at this conference as well as the curriculum for Joint PhD study program.
- The Program of the conference and Book of Abstracts will be published on the web

page.

• **CONFERENCE VENUE AND DATE:** Novi Sad, September 5th -9th 2022

• **TYPE OF PARTICIPATION:** face-to- face and online (to check)

• **CONFERENCE TITLE:** suggestions:

**Plant Health in Sustainable Agriculture: Hot Spots and Solution Perspectives**

• **PARTICIPANTS:**

- PhD students (including those who defended the doctoral thesis during the project)
- Teachers, from PI-s
- Project Stakeholders
- External scientists (out of Harisa project, **conference fee +/-?**)

• **PROGRAM/SESSIONS:** oral, poster

• **ORGANIZING AND SCIENTIFIC COMMITTEES:** **to define**

• **ABSTRACT BOOK AND/OR PROCEEDINGS:** **to chose reviewers (scientific board)**

• **FIRST ANNOUNCEMENT; SECOND ANNOUNCEMENT (**deadlines**)**



## PROGRAM/SESSIONS:

- Presentation of the project results “Harmonization and Innovation in PhD Study Programs for Plant Health in Sustainable Agriculture –HarISA” (study program, equipment, PhD theses ect..) R. Bažok and WP leaders – project workshop
- Stakeholders (Plant Protection Society of Serbia; PIS Serbia...and other interested)- round table employment perspectives
- Student s- research,
- Students-mobility reports
- Students who completed PhD: experiences, advices on project application
- Expert researchers (teachers from PIs and external?-to select invited speakers)

## Scientific board task

Scientific topics should be organized in sessions according the SG titles:

- Diagnosis in plant health and IPM
- Sustainable use of pesticides
- Plant feeders
- Plant Pathology
- Weed science
- Mycotoxins and food safety
- Bio-diversity and bio-indicators in sustainable agriculture
- Precision agriculture in control of plant pests, pathogens and weeds

Sessions` titles should be entitled according the abstract contents (after the deadline for abstract submission)

## ORGANIZING COMMITTEE:

- President: Prof. Aleksandra Konjević
- Members:
  - Renata Bažok, Project Leader
  - Dean of FA-UNS
  - Director of Department for Environmental and Plant Protection , Prof. Bojan Konstantinović,
  - Staff of FA (including few students )+UNS
  - ?Stakeholders: **Goran Aleksić, Plant Protection Society of Serbia**

## SCIENTIFIC BOARD:

President: Prof. Renata Bažok

WP3leaders+SG leaders (2+7=9)

Members of each PI (1-2): PI leaders (=12)+team member.s (up to 12), with balance among scientific fields

Others? **Goran Aleksić, Plant Protection Society of Serbia**

Duties: entitling sessions, reviewing submitted abstracts)





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*Festina lente!*



FAZOS



ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ



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