THE TEMPUS PROJECT "INTEGRATED PLANT PROTECTION" (JEP 41164-2006)

Long lasting improvements in the curricula for plant protection

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INTEGRATED PLANT PROTECTION

IPM is a combination of methods which reduces chemical plant protection measures to the absolutely necessary minimum, giving preference to biological, cultural measures, and plant-breeding.

Project objectives

- The objectives are to increase and enhance significantly
 - human resource development,
 - curriculum development and
 - institutional and systems development, all related to the theme 'integrated plant protection'.

Specific objectives

 To develop and exchange interdisciplinary training elements in Plant Protection and

Establish a sustainable basis for outgoing mutual teaching for research support in this key scientific area.

Partners

- **1.** Coordinator: University of Helsinki,Finland
- 2. University of Copenhagen, **Denmark**
- 3. University of Catania, **Italy**
- 4. University of Osijek, Osijek, Croatia
- University of Sarajevo, Sarajevo, Bosnia and Herzegovina
- 6. University of Belgrade, Serbia

Activities of J. J. Strossmayer University in Osijek, Faculty of Agriculture

PhD and MSc students will take short training courses organized by consortium members;

 Organizing visits, lectures and workshops of consortium members at home institution; Activities of J. J. Strossmayer University in Osijek, Faculty of Agriculture

 Testing and implementing novel web based tools for teaching plant protection;

Development of Joint Curriculum with regard to plant protection.

	Activities in project year first and second
1	Short training courses
	a) Insect Pathology and Microbial Control
	b) Advanced Plant Microbe Interactions
2	Training visits
	a) Economics in Plant Protection
	b) Entomology and Population Ecology
	c) International Course Participation
	d) Ecosystem Services in Plant Protection
3 .	Implementation of web-based tools
	a) Web-based teaching/e-learning, part 1
	b) Web-based teaching/e-learning, part 2
4	Joint Curriculum Development
	a) Development of Integrated Plant Protection course, MSc-level
	b) Development of PhD-course "Modern Concepts and Advanced Methods in Crop Protection"

Short training courses

Insect Pathology and Microbial Control

 Short Training Course for three PhD students from the CARDS partners at partner 2 (DK).

Advanced Plant-Microbe Interactions

 Stay of five PhD students at partner 2 (DK). They will attend the high level inter-national PhD courses "Advanced Plant-Microbe Interactions" and 'Advanced Methods in Plant Pathology' organised by partner 2, with major emphasis on plant diseases.

Training visits

Economics in Plant Protection

 training visit of three weeks by two senior scientists from partner 1(FI) at CARDS partners 4-6 (HR, BA, CS)

Entomology and Population Ecology _ training one MSc and one PhD student from partner 4, 5 or 6 at partner 3 (IT).

Training visits

International Course Participation

 The activity consists of attending training courses at partner 1 (FI) by 5 MSc students from partners 4, 5 and 6.

Ecosystem Services in Plant Protection

 The activity involves stays at partner 1(FI) by 2 MSc students from CARDS (BA, HR).

Implementation of web-based tools, part 1

 The aim of this activity is to test and implement novel web based tools at CARDS partners, developed by partners 2 (DK) and 3 (IT) specifically for plant protection.

Implementation of novel web-based tools, part 2

 Activity involves stay at partners 4, 5 and 6 by one scientist from partner 2 (DK) and one scientist from partner 3 (IT). Joint Curriculum Development: Development of Integrated Plant Protection Course, MSc-level

- The aim of this activity is to design an innovative integrated plant protection course unit
- The activity involves a didactics specialist from partner 1 (FI) and/or 2 (DK), spends time at partners 4, 5, and 6, developing a new course for piloting and for adoption at similar institutions.

Joint Curriculum Development: PhD-course Modern Concepts and Advanced

Methods in Crop Protection"

- A PhD course is to be arranged by partner 6 (CS), involving teachers and students from all partners with the colaboration of FI, DK and IT
- Target an Academic and administrative staff (curriculum development) as well as PhD-students groups: CARDS partners (HR, BA, CS)

Dissemination

 Promotion the use of the training packages through partners collaboration with other national and international universities,

- Thematic expansion,
- Partner extension and
- More research.

Sustainabilty

- Ensuring and strengthening sustainability of IPM education via:
 - -Modernn approaches,
 - -Joint curricula,
 - -Joint grant applications and
 - -Successful research.
- Consortium will influence that the project outcomes will be considered into national and international legislation and standards.

Quality control and monitoring

Internal evaluation:

- EC project Cycle Management (2004) will be used for the procedures;
- Annual progress reviewed at workshop;
- Students feedback on the new curricula

Quality control and monitoring

External evaluation:

- -Auditing
- Evaluating of practical solutions by extension services
- Partners presentation at national and international forums, by leaflets and uploads on the web (e-learning)

Summary of the project:

To enhance skill and mobility of teaching and research staff (20) and postgraduate students (120)

Collaborations between universities in order to minimize the use of chemical pesticides in Europe Creation of joint research group in effective crop protection

 Implementation of modern IT system (web conferences and e-learning methods)

Establish a sustainable platform for future development of education curricula (MSc and PhD) Develop a dissemination and communication system through workshops and seminars, at 3 levels:
The University level
The grower level

-The public level

Outputs and outcome

Enhanced capacities in the integrated plant protection

Long-lasting improvements for in the curricula for the plant protection

