

How to enhance job market for MSc students in Applied Plant Sciences at the European level?

ESCAPAdE: a strategic partnership dedicated to Erasmus mobilities and
teaching in Applied Plant Sciences

<https://escapade-erasmus.eu/>

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EsCAPAdE project at a glance

Objectives

- Use the **diversity of study modes and thematic**s offered to MSc students within our **European network**, to train them efficiently in **Applied Plant Sciences**, and provide answers to new challenges in crop production/ protection / breeding.
- Include our **professional network**, in order to offer **enhanced academic profiles**, and increase **employability** in the sector of plant biodiversity management, plant breeding and crop protection.



7 academic partners
22 associated partners
(commitment letters)
2018-2021

Some results of our project



- Construction of a specific database and online tool to select Erasmus courses in applied plant sciences (*on keywords, not only touristic areas...*)

Maintained for 4 more years

It would be nice to include more partners!



<https://escapade.boku.ac.at/>

Thanks,
Hermann

Course database

Course Database

Search for words in ...
english title / native title / content

Term Semester	Instruction languages	Organisation Name
<input type="checkbox"/> Autumn/Winter	<input type="checkbox"/> English	<input type="checkbox"/> Institut Agro - Montpellier SupAgro
<input type="checkbox"/> Spring/Summer	<input type="checkbox"/> German	<input type="checkbox"/> University of Natural Resources and Life Sciences Vienna
	<input type="checkbox"/> French	<input type="checkbox"/> Czech University of Life Sciences Prague
	<input type="checkbox"/> Italian	<input type="checkbox"/> Democritus University of Thrace
	<input type="checkbox"/> Czech	<input type="checkbox"/> Università Politecnica delle Marche
	<input type="checkbox"/> Greek	<input type="checkbox"/> Swedish University of Agricultural Sciences
	<input type="checkbox"/> Swedish	<input type="checkbox"/> Universidad Politécnica de Madrid
	<input type="checkbox"/> Spanish	<input type="checkbox"/> Institut Agro - AgroCampus Ouest

Title English	Instruction languages	ECTS-Credits	Term Semester	Organisation
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[Contact](#) [Privacy policy](#)

Welcome to the ESCAPAdE course database!

Are you a MSc student and planning for a study period abroad?
Are you studying/interested in applied crop plant sciences, such as agronomy, breeding, crop protection?

See ESCAPAdE flyer!

Some results of our project

Thanks,
Petra, Hamid
and Laura



- Analyse stakeholders' view on recruitment strategies



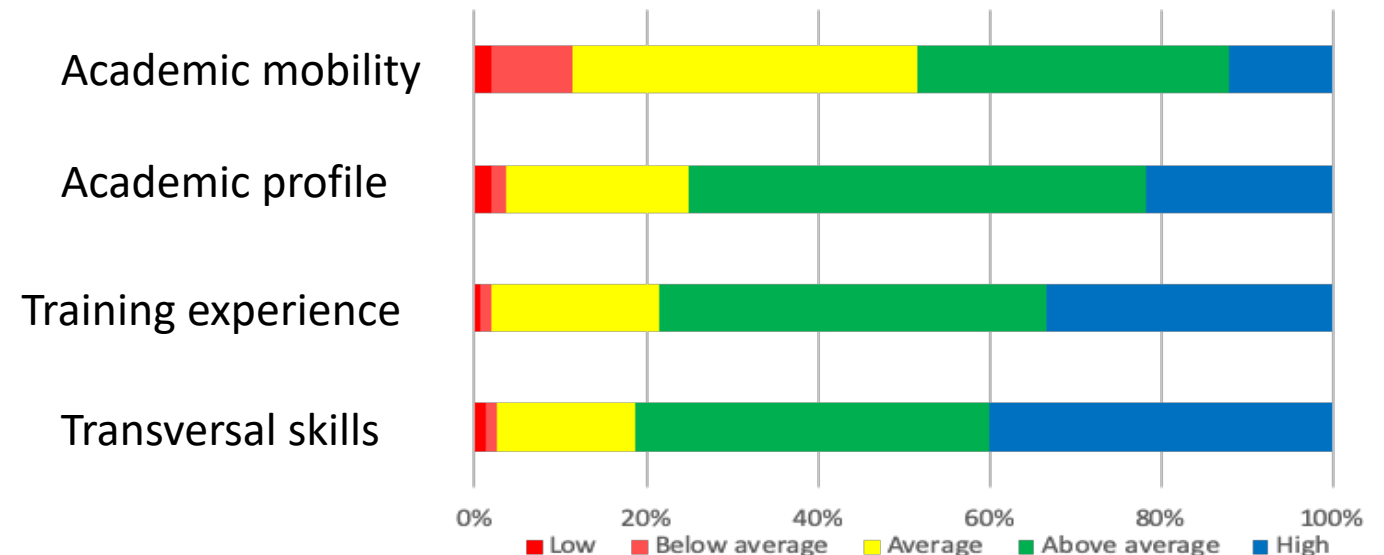
« Professional needs for future employees with applied plant science profile as per findings of an European survey » *(almost) submitted paper, webinar and video*



Organized by the Czech University of Life Sciences Prague on behalf of ESCAPAdE project consortium

Where? Online, link: [VIA MICROSOFT TEAMS](#)
When? 11 May 2021 (9-11:30)
Who? Representatives of universities, students, graduates, professionals
Why?

• To share lessons learnt and recommendations from the survey conducted by the ESCAPAdE project on stakeholders' needs

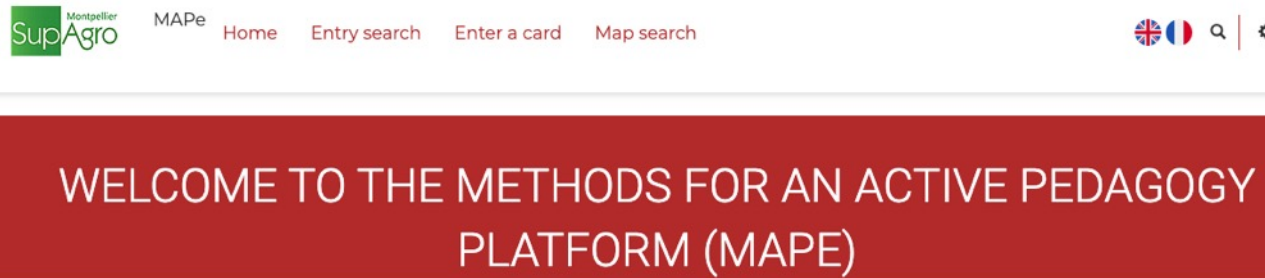


Importance of different features of future employees upon recruitment

Some results of our project

- Collectively improve our teaching practices

<https://www.supagro.fr/mape/wakka.php?wiki=PagePrincipale&lang=en>



Changed Roles

CHANGED ROLES

For a course for advanced master students on disease resistance breeding, we suggested a number of topics and shared the topics among the participants. Each teacher took over to mentor one student who then had to provide a lecture to all attendees and 2) a 3-5 pages mini paper for sharing and discussion.

Resources produced as a result of a project: Escapade

Group size : Group (10-15 persons)

Modality : Presential

Duration of the teaching method : Over several sessions

Special equipment : classroom

Type of knowledge developed : Knowledge, Social skills

Target Audience : Students

Course Type : Course

ESCAPAdE

SIMULATION OF A REAL PROJECT: NOTIFICATIONS CONCERNING RELEASES OF GENETICALLY MODIFIED HIGHER PLANTS

This method is a methodological strategy of teaching and learning in which students carry out a real project applying the skills and knowledge acquired during the formative process. Therefore, students simulate a real solicitation by completing the information required in notifications concerning releases of genetically modified higher plants (gymnospermae and angiospermae), which includes information relating to recipient or parental plants, the genetic modification, the genetically modified plant, etc.



Thanks, Julien,
Erik, all
teachers and
tutors

(summer school in Prague cancelled in 2020)

Host Plant Resistance Breeding
as a part of Integrated Pest Management

17 - 21 August 2021

MSc summer Host Plant Resistance Breeding as a part of Integrated Pest Management, is planned as an on campus course 17-21 August, 2021, at SLU Alnarp, Sweden, with following home assignments to be completed by the 27th of August 2021. Students can join the ESCAPAdE job fair organized the 23-24 August also at SLU Alnarp. In case of covid-19 restrictions, the course can be taken remotely.

CONTACT

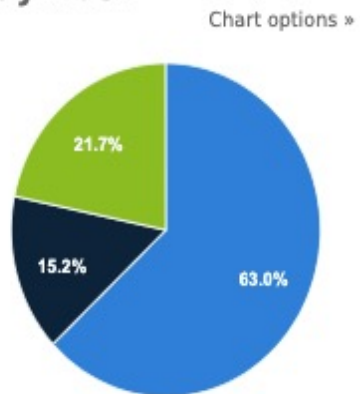
For more information see : escapade-normandy@supagro.fr and www.escapade-study.org

Some results of our project

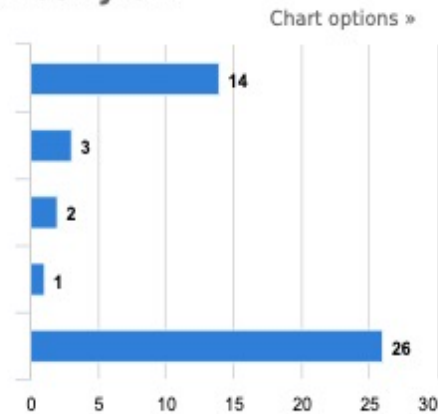
- Collectively improve our teaching practices (students survey)

Thanks,
students

Do you think that your learning success with innovative pedagogies during your university study was:

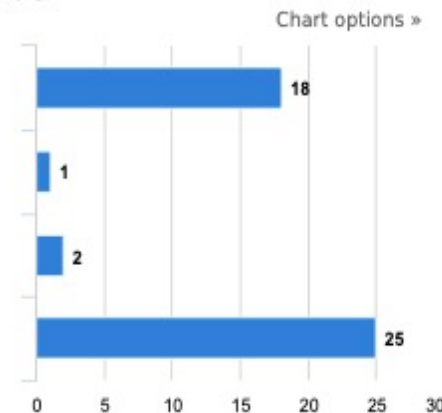


The quality of the lectures with innovative pedagogies depended mostly on:

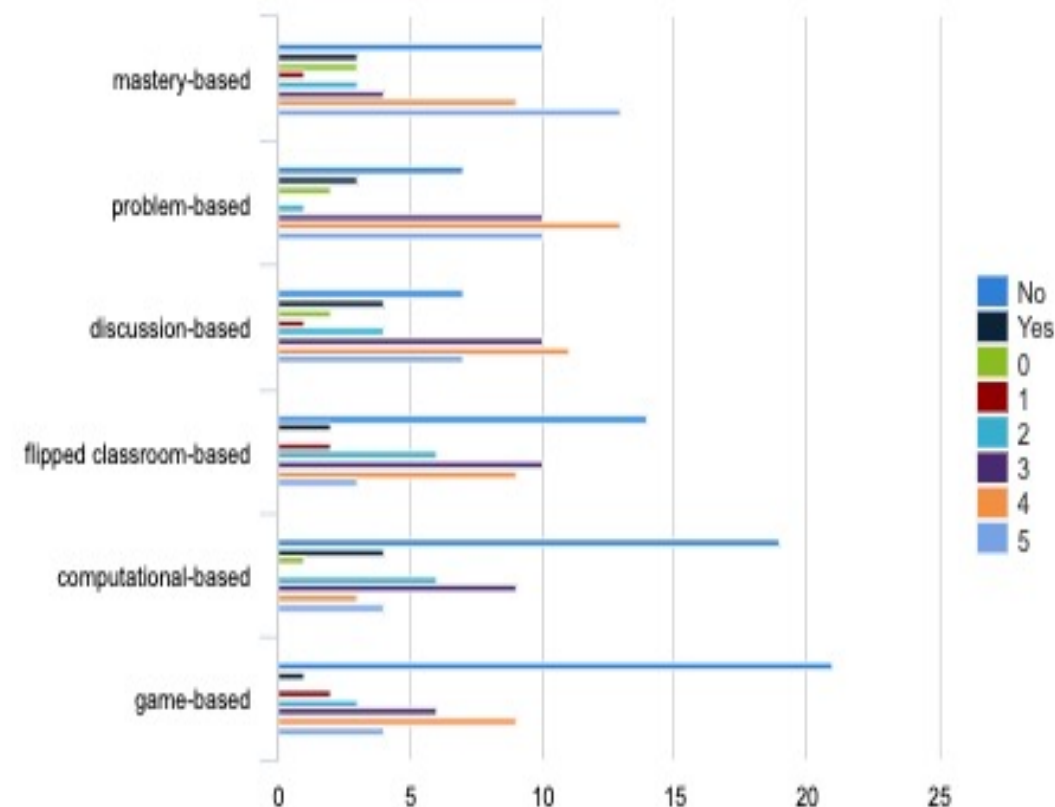


the teacher	14
the teaching method	3
the infrastructure	2
other factors	1
I don't know	26

Based on your experience, would you prefer the proportion of innovative pedagogies to be



increased	18
decreased	1
kept at the same level	2
No opinion	25



(47 answers only)

Some results of our project

- Collectively improve our teaching practices (summer school feedback)
 - My best memory:
 - (diverse) group activities, brainstorming, debating, project-based learning...
 - Socializing (including Italian / Greek shared meals in the evenings)
 - Excursion (apple orchard near the seaside...)
 - What I will bring home:
 - New friends, multicultural experience, teamwork
 - New ideas, open mind, new perspectives
 - New knowledge, desire to learn more, study opportunities
 - A pin...
 - And for tutors (PBL and other teaching activities):
 - (first) teaching experience, sharing its own knowledge
 - Self confidence



Thanks,
students,

Thanks Erik /
ELLS to have
made it
possible

« I have met wonderful and smart people that have enriched my experience, both personally and academically »

(some answers on postcards)



Some results of our project

- Extending our network: towards an European label in Applied Plant Sciences?
 - Learning outcomes defined jointly
 - General procedures - Case study conducted here in SLU

+ methodological
and soft skills

2. Plant health

1. Describe the basic principles underlying pest (animals, pathogens, weeds)-plant interactions, their effects at the organism and population level as well as practical implications in crop protection.
2. Describe the sanitary state of a crop and identify and describe the main players (pests and antagonists/endemic and invasive).
3. Organize and conduct crop sampling and use sampling data to organize protocols for integrated pest management and organic production systems.
4. Evaluate crop protection strategies (biological, chemical, biotechnological, genetical, physical, mechanical and cultural controls) and understand their benefits and limitations in respect to efficacy, environmental and social impact.
5. Discuss the genetics and evolution of pests' resistance to pesticides and plant defense and propose the appropriate measures to delay resistance development.
6. Design ecological engineering approaches for enhancing functional biodiversity ecosystem services (biological control of pests and pollination) considering the complexity of agroecosystems.
7. Identify the sources of agricultural pollution, address environmental problems and identify factors that deteriorate the agroecosystems.
8. Describe the national and EU regulation for plant protection products, biological control agents and quarantine organisms.

How to enhance job market for MSc students in Applied Plant Sciences at the European level?

- **Develop renewed curricula taking into account new paradigms and new requirements of agriculture**
 - Agroecological perspectives, global changes, new scientific concepts, research skills...
 - Transversal skills ++
 - Get maximum benefit from Erasmus opportunities and publicize it
- **Be more attractive for (smart) students**
 - Improve teaching methods (more interaction and personal engagement)
 - Increase internationalisation (language skills and multiculturalism)
 - Follow a quality label in Applied Plant Sciences?
- **Enhance our communication with stakeholders** (academic and non-academic)
 - Participation in teaching activities, in European projects
 - Advisory committees of MSc degrees
 - Internships (including European / international students)

Let's discuss on that!

Thanks to all partners from

BOKU (Tulln)

CULS (Prague)

DUTH (Komotimi)

SLU (Alnarp)

UPM (Madrid)

UNIVPM (Ancona)

Institut Agro (Montpellier – Rennes - Angers)

Thanks to our associated partners and other academic / non
academic structures for their interest / participation in the project

Thanks to the European Union for the funding and support

Thanks to all participants in ELLS/ESCAPAdE Summer School:
Host Plant Resistance Breeding as a part of Integrated Pest
Management, 17-23 August!

LINDESRO AB
PARASITER OCH PREDATORER


Graminor


ARC • LNR



COLDIRETTI

Holistic Solutions

s.r.o.

Nomad Foods



Lantmännen



DANESPO



MariboHilleshög

FMC