



DUAL HIGHER EDUCATION IN MOLDOVA AND UKRAINE – COOPERA

Nov 09, Lleida (Spain)

Outline

- **MS Structure & Academic Objectives**
- Why Dual Training?
- Dual Training Implementation
- Results
- Strengths, Weaknesses and Shortcomings

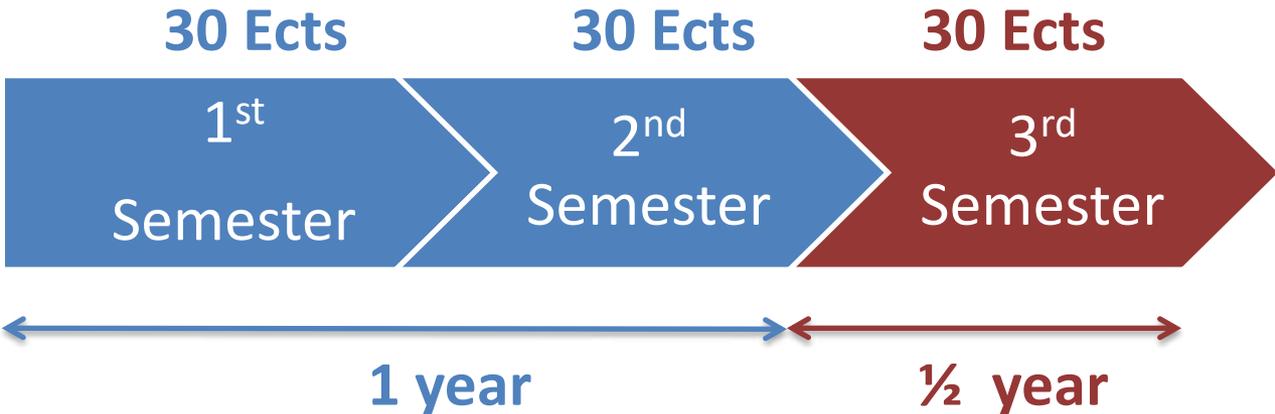


Master Informatics Engineering

Dual Training Program

MS Structure & Objectives

- Starting Academic course 2011-12 (10 years)
- Official Master degree
- 90 ECTS



Master Informatics Engineering

Dual Training Program



MS Structure & Objectives

Provide expertise on the latest IT technologies and also competences on Enterprise management

Basic Structure (2011-2015)	
Subjects	ECTS
Enterprise Management	12
IT Subjects	54
Elective Subjects	12
Master Thesis	12
Total ECTS	90

- Enterprise Management and Entrepreneurship
 - Enterprise Management and Entrepreneurship
 - Project Management
- IT technologies
 - WS, App development & HCI
 - AI, Embedded Systems and Computer Graphics
 - Communication and Security
 - HPC, Cloud Computing
- Elective courses
 - Research
 - Internship
 - Mobility



Master Informatics Engineering Dual Training Program

Implementation

1st Semester (Sep – Jan)

2nd Semester (Feb – Jun)

30 ECTS

IT Project Management

Development and Implementation

Computer Graphics and Multimedia

Intelligent systems

Embedded and Ubiquitous Systems

30 ECTS

Communication Services and Security

Technological Business Management and Entrepreneurship

Evaluation Techniques and Usability Testing

High Performance Computing

Specialization I

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Why Dual Training?

Results from surveys to students and companies

- Lack of experience in project management
- Lack of communication skills
- Lack of soft skills

Why Dual Training?

Particular situation of our MS

- 100% Employability for bachelor IT students
- Lots of IT vacancies
- MS under recognition
- Expensive fees

MS became unattractive

Master Informatics Engineering

Dual Training Program

Why Dual Training?

Structure (2015-2018)		ECTS
Subjects		ECTS
Enterprise Management		13.5
IT Subjects	Compulsory	40.5
	Specialization	18
Elective Subjects		6
Master Thesis		12
Total ECTS		90

- Introduction of Project Based Learning methodologies
- Revalue Project Management, Enterprise management and Entrepreneurship skills
- Adding specializations
 - BIG DATA analytics
 - Videogame development
- Recruitment of companies experts
- Companies seminars inside courses
- Euro-Inf Quality Label



IS IT ENOUGH???

Why Dual Training?

- Students:
 - improving its knowledge working in a company
 - Improving soft skills
- Companies:
 - attracting new talent and training its future workers
 - dual students are very good candidates to develop I+D projects
- University:
 - academic-enterprise alignment
 - Improvement of students satisfaction and MS attractiveness

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2nd Semester (Feb – Jun)

30 ECTS

30 ECTS

Software Project

Ubiquity and Intelligence project

Networks and Security Project

IT Enterprise Management and Entrepreneurship

Cloud Computing

Specialization I – Dual Training

Implementation

3rd Semester (Sep – Jan)

30 ECTS

Specialization II

Specialization III

Elective Subject

Master Thesis

**Dual Training – Enterprise Integrated
Projects**

Implementation

1st Semester

2nd Semester

3rd Semester

- Evaluation and follow-up through a Portfolio
- Student (S), Enterprise supervisor (ES), University Supervisor (US)
- 2 meetings x Semester (1S, 2S, 3S)
 - Definition of the training activities and skills to cover (ES,US)
 - Student self-evaluation, Evaluation of technological competences and Soft skills (S, ES)
- A Memory of activities x Semester
- Marks transferred to Subjects in the master program.
(Enterprise-Integrated Project Speciality (24 ECTS))

Outline

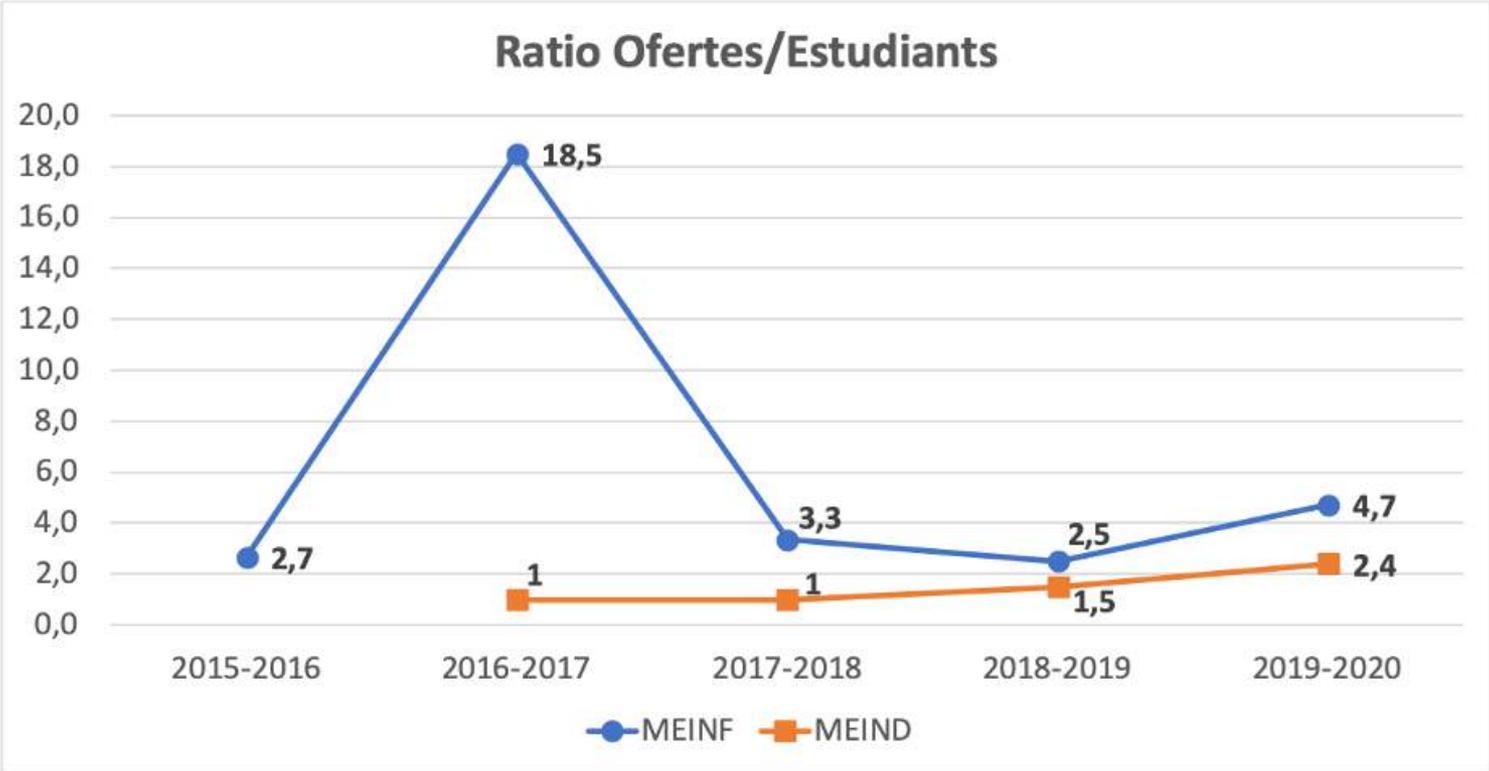
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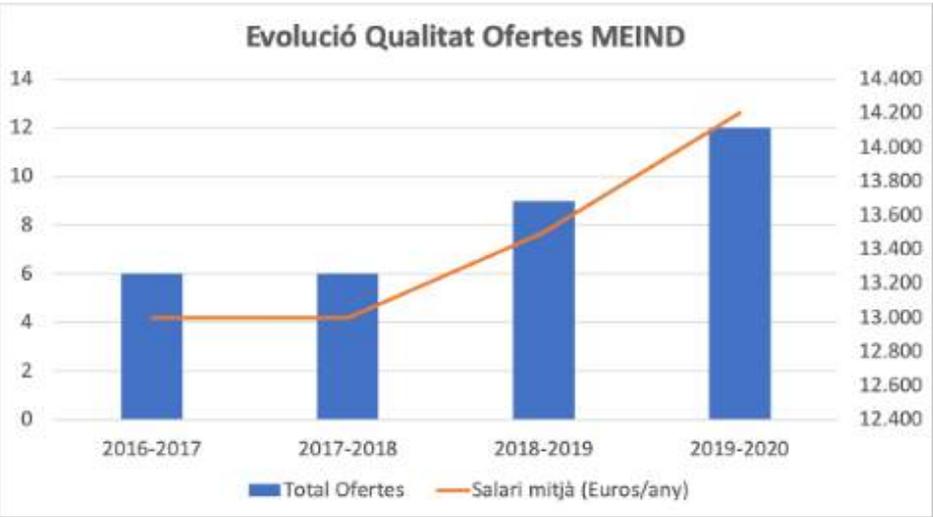
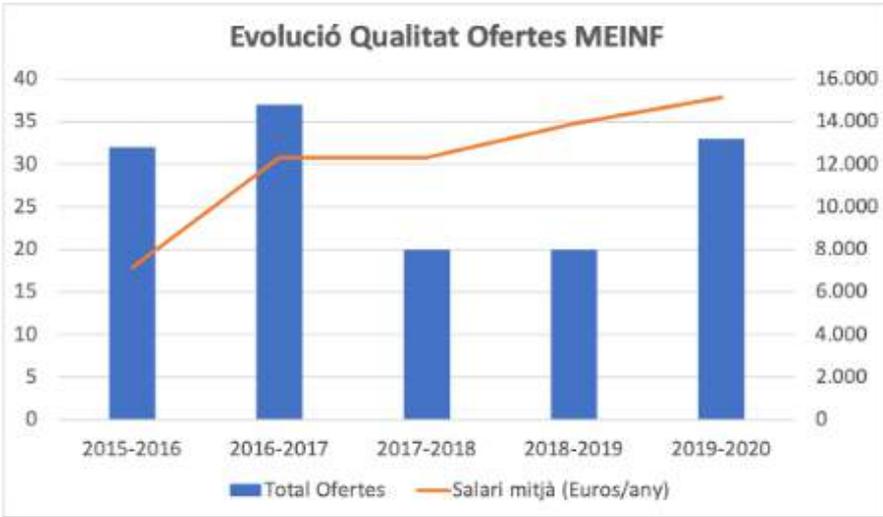
Results





Master Informatics Engineering Dual Training Program

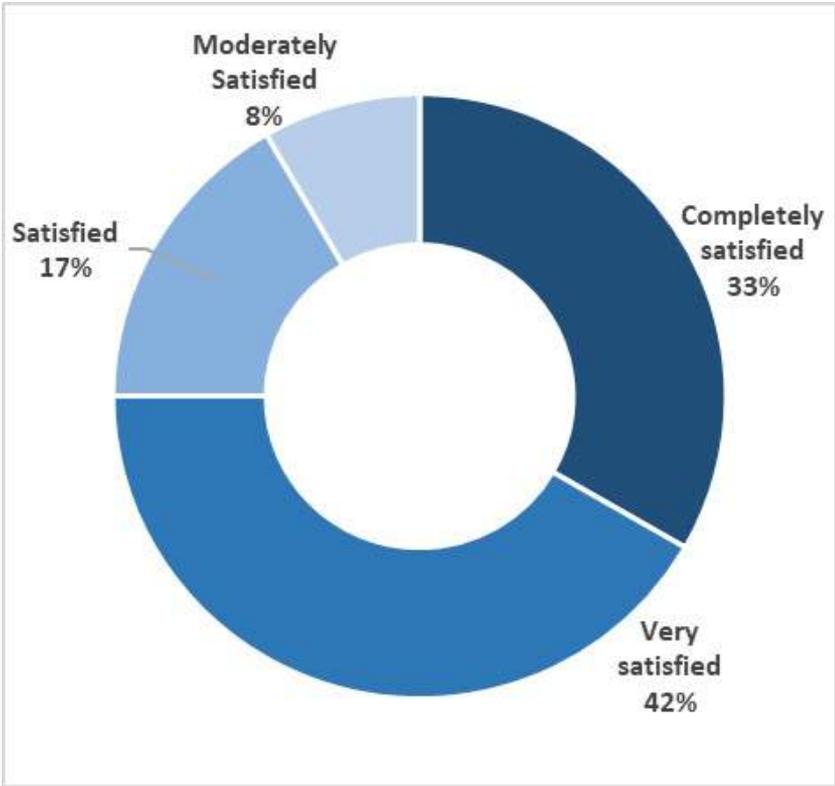
Results



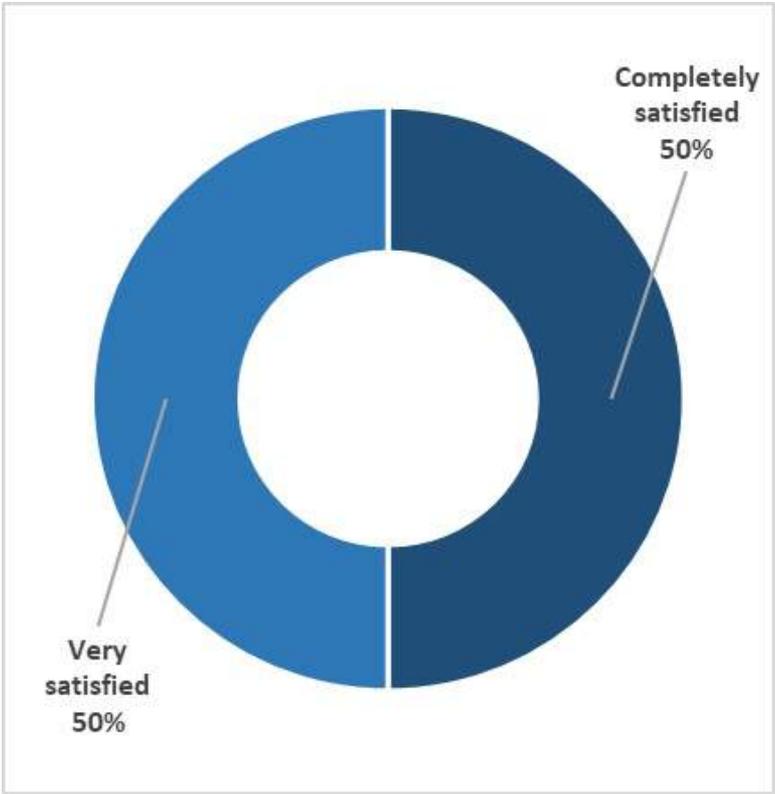


Master Informatics Engineering Dual Training Program

Results



Student Global Satisfaction



Company Global Satisfaction

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Strengths, Weaknesses and Shortcomings

Strengths

- Improvement of the student skills
- academic-enterprise alignment
- Improvement of students satisfaction
- Improvement of MS attractiveness
- New opportunities for knowledge transference



Strengths, Weaknesses and Shortcomings

Weaknesses

- High workload for the students
- appreciation in value of the MS by companies and students
- Requirement of a change of mentality in the companies



Strengths, Weaknesses and Shortcomings

Shortcomings

- No internship contracts
- Administrative difficulties for foreign students
- Improvement of the grant programs
- Support to the co-evaluation process



Master Informatics Engineering Dual Training Program

Thanks for your attention

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