VIRTUAL ENTERPRISES COURSE

= Introduction =

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MOTIVATION

Imagine ...

Building a new bridge ...

Building a new airport...

Who is involved?
Which relationships?
For how long?
How do they work?
What can ICT do for this?
MOTIVATION ...

Imagine ...

Energy production, distribution, and consumption in an open market

How can this be organized? And operated?

Towards a networked society

Witch new ways or work?
MOTIVATION ...

Growing unemployment rates!

Unemployment rates and proportions for EU countries, Q3 2011

(Among young people)

Portugal: > 35%

Can we think of new ways of organizing the society?
And the work?

Source: Eurostat

COLLABORATION LANDSCAPE

MANIFESTATIONS

Business ecosystem
Virtual lab
E-Business
Virtual organization
Partnership
Virtual enterprise
Breeding environment
Virtual team
Extended enterprise
Virtual community
Supply chain
Community of practice

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SCOPE

Analysis and characterization
Modeling
Organization and Management
Support tools

A socio-economic-technical perspective

PROGRAM - LECTURES

1. INTRODUCTION
2. COLLABORATIVE NETWORKS: Overview and success cases
3. CN: Overview and success cases (cont.)
4. ICT INFRASTRUCTURES FOR COLLABORATION
5. ICT INFRASTRUCTURES – SECURITY
6. VO BREEDING ENVIRONMENTS
7. CREATION OF VIRTUAL ORGANIZATIONS
8. MANAGEMENT OF VIRTUAL ORGANIZATIONS
9. INTERACTION WITH CUSTOMERS
10. E-COMMERCE
11. VIRTUAL COMMUNITIES
12. REFERENCE MODELS
Development of a software system to manage a collaborative network in a selected application domain.

The work will be organized as a collaborative project:

- Students are divided in groups
- Each group develops one component (to be made available as a web service)
- All developed services will be integrated into a common demonstrator
- The global system architecture and the demonstration scenario to be designed collaboratively

EVALUATION RULES

Theoretical component: 50%
- Continuous evaluation (assignments, quiz)
- Discussion

Laboratorial part: 50%