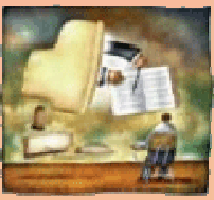


Forming an e-learning support center at FOI practical approach

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University of Zagreb



Lecture Outline

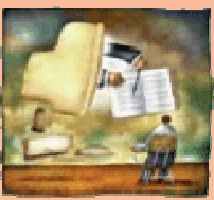
- About Faculty of Organization and Informatics
- E-learning at FOI - past
- E-learning at FOI – present
- FOI e-learning strategy
- FOI e-learning support center
- Conclusion



Faculty of organization and informatics

- In accordance with the Bologna Declaration recommendations, the study at FOI has been established on the three-level model encompassing the:
 - Undergraduate study
 - Information Systems
 - Business Systems
 - Economics of Entrepreneurship
 - Graduate study
 - Information and Software Engineering
 - Business Systems Organization
 - Databases and Knowledge Bases
 - Teacher of Informatics
 - Postgraduate (doctoral) study
 - Postgraduate (specialized) studies
 - Information Society Organizations Re-engineering
 - Business Systems Management
 - Security Management of IS





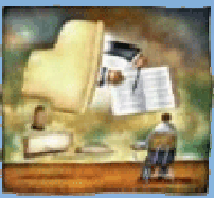
Faculty of organization and informatics

Some facts

- 80 professors and assistant professors
- 2500 students
(2000 active in LMS)
- Around 100 courses in LMS
 - 60% active
 - 30% in preparation
 - 10% inactive
- Future predictions (based on FOI strategy)
 - 31.12.2008.
140 active courses (40% of courses at e-learning level FOI 2)
 - 01.01.2010.
 - Over 250 active courses (70% of courses at e-learning level FOI 2)
 - 100% of students that have used LMS

The screenshot shows the 'E-LEARNING FOI' interface. The main content area is titled 'Popis kolegija' (Course Catalog) and lists various courses with their respective student counts. The courses are organized into categories like 'FOI sveučilišni studij', 'Specijalistički studij', 'Doktorski studij', 'Stručni studij - FITUP', 'Informacijski sustavi (stari studij)', 'Pomoć', 'Inžinjering', and 'Razno'. The 'Razno' category is expanded to show 'Menadžment poslovnih sustava' and 'Sigurnost i revizija informacijskih sustava', each with sub-generations.

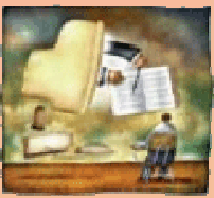
Course Name	Academic Year	Number of Students
FOI sveučilišni studij	Ak. god. 2007./2008.	64
FOI sveučilišni studij	Ak. god. 2006./2007.	29
FOIEF sveučilišni studij	Ak. god. 2007./2008.	5
Specijalistički studij		
Menadžment poslovnih sustava		
Generacija 2		2
Generacija 1		1
Inženjering i reinjering organizacija informacijskog doba		
Generacija 2		3
Generacija 1		5
Sigurnost i revizija informacijskih sustava		
Generacija 2		6
Generacija 1		10
Doktorski studij		



E-learning at FOI - Past

- No central coordination
- No support
- Diverse approaches
- Different platforms
 - FOI CMS
 - FOI Distance Learning (FDL)
 - E-Learner
 - FOI CMC
 - WebCT
- 2005 – First Moodle installation – testing purposes
- 2006 – First document describing possible e-learning implementation at FOI
- 2007 - E-learning committee was formed

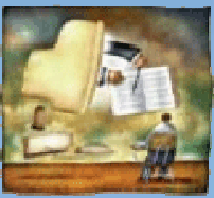




E-learning at FOI - Present

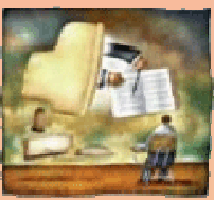
- E-learning Strategy (2008 - 2010)
- Support from top management
- Central coordination
 - e-learning committee
- Support provided
 - e-learning support center
- Standard platform
 - Moodle





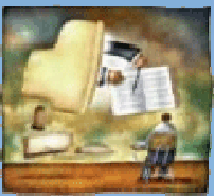
E-learning at FOI - Strategy

- Define and describe advantages of e-learning
- Set goals that are planned to be achieved by implementing e-learning
- Define strategic actions that will lead to achieving this goals
- By implementing e-learning FOI plans to achieve following strategic goals:
 - To enhance quality of educational process and learning outcomes
 - To prepare students for lifelong learning
 - To ensure that potential students have better and wider access to education
 - To provide exposure to international market



E-learning at FOI - Strategy

- Systematic implementation of e-learning contributes to enhancement of teaching and research process, business position of FOI, personnel development and lifelong learning
- Basic guidelines:
 - E-learning is legal and desirable approach to teaching and learning
 - Level of e-learning implementation is determined by methodological and pedagogical needs and not by imperative of usage of modern technologies.
 - Different aspects of e-learning at FOI represent area of scientific research because its direct link to information sciences



E-learning at FOI - Levels



Where to start?

Level FOI 1

To increase availability of learning materials and to ease communication with students

Level FOI 2

To ease learning process through better integration between e-learning and classic teaching

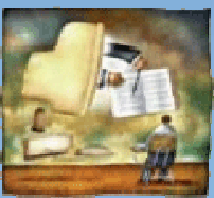
Level FOI 3

To advance teaching methods by hybrid course organization made by principles of instructional design



E-learning at FOI - Levels






- Level FOI 1
 - Basic course information
 - Detailed course description
 - Learning outcomes
 - Literature
 - Selected learning materials
 - General discussion forum






E-learning at FOI - Levels

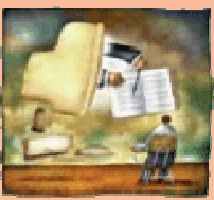
- Level FOI 1

Uvod

-  Forum s vijestima
-  Forum za diskusije Broj nepročitanih poruka: 2
-  Osnovne informacije o kolegiju
-  Ishodi učenja
-  Model praćenja studenata
-  Plan i program rada
-  Literatura

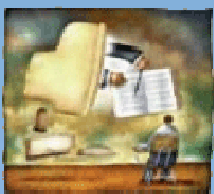
1 Nastavni materijali

-  Uvodno predavanje
-  Matematički modeli i struktura matematike. Matematička indukcija
-  Matematička logika
-  Skupovi i relacije
-  Matrice i determinante
-  Rješavanje sustava linearnih jednažbi



E-learning at FOI - Levels

- Level FOI 2
 - Selected learning materials organized by topics
 - Advanced forum usage: general forum, forums linked to specific topics
 - Calendar of important events
 - Announcements
 - Self [evaluations] linked to specific topics
 - Full grading system
 - Glossary



E-learning at FOI - Levels

- Level FOI 2

Uvod

- Forum s vijestima
- Forum za diskusije Broj nepročitanih poruka: 2
- Osnovne informacije o kolegiju
- Ishodi učenja
- Model praćenja studenata
- Plan i program rada
- Literatura

1

Uvod, matematički modeli, struktura matematike

- Forum za diskusiju
- Predavanja
- Zadaća 1
- Zadaća 2

2

Matematička logika

- Forum za diskusiju

Kalendar

Veljača 2008

Ned	Pon	Uto	Sri	Čet	Pet	Sub
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

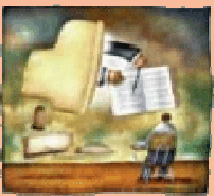
- Globalni događaji
- Događaji u nutar kolegija
- Grupni događaji
- Korisnička događanja

Buduća događanja

Nema predstojećih događaja

[Prikaži kalendar...](#)

[Novi događaj...](#)



E-learning at FOI - Levels

- Level FOI 2

Stranica: 1 2 3 (Sljedeći)

Preostalo vrijeme
0:07:53

1 Koja svojstva ima relacija ekvivalencije?
Marks: 1

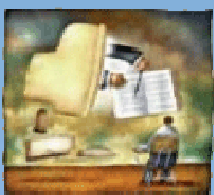
Choose at least one answer.

- a. Tranzitivnost
- b. Kompletnost
- c. Simetričnost
- d. Asimetričnost
- e. Irefleksivnost
- f. Antisimetričnost
- g. Refleksivnost

2 Koja svojstva (refleksivnost, irefleksivnost, simetričnost, tranzitivnost, antisimetričnost) ima relacija
Marks: 1

```
graph TD; a((a)) --> a; c((c)) --> c; b((b)) --> c; c --> b;
```

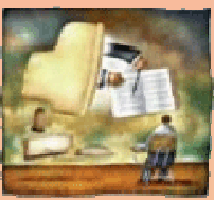
(Iza zareza stavljajte razmak! Pišite malim slovima!)



E-learning at FOI - Levels

- Level FOI 2

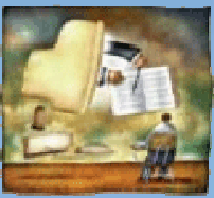
														Vidi ocjene		Podеси postavke		Podеси kategorije		Podеси težinu		Set Grade Letters	
														Download u MS Excel formatu		Download u tekstualnom formatu		Vidljive grupe:					
														ocjena		Ocjene							
Student	Zadaća	Samoprocjena	Kr.	DZ	Kr.	Kolokvij	Kolokvij	Kolokvij	Esej	Akt. -	Akt. -	DZ	DZ K										
Sortiraj po prezimenu	4	1-aktivnost	provjera 3	13	provjera 4	1	2	3		prisustvo	na satu	+/-	9										
Sortiraj po imenu	2	2	3	2	3	20	20	20	10	3	3	2	4										
Čakarić, Mislav	1	2	2	-	-	10	11	-	8	2	2	2	4										
Čavlek, Željka	1	2	2	-	-	3	-	-	9	1	-	1	-										
Čehulić, Bojan	1	1	2	-	-	8	8	-	5	3	3	2	3										
Čiček, Dario	1	0	-	-	1	6	1	-	3	2	-	2	2										
Čivrag, Irena	2	1	2	-	-	8	6	-	-	3	-	1	4										
Đanić, Mario	2	2	1	-	-	2	1	-	-	0	-	0	4										
Đurek, Matija	1	0	2	-	-	10	10	-	5	2	-	1	4										
Šabanović, Amir	1	1	2	-	-	7	0	-	-	-	-	0	-										
Šafar, Luka	2	2	2	-	-	10	6	-	7	3	2	0	4										
Šajn, Matija	-	2	2	-	-	2	1	-	2	-	-	0	-										
Šarić, Branko	-	-	1	-	-	5	2	-	0	-	-	0	-										
Šešet, Ana	2	2	2	-	-	10	6	-	7	-	-	1	-										



E-learning at FOI – Strategy

- Quantitative Indicators

Indicator	Value	Deadline
Percentage of courses (undergraduate study) at level FOI1	100%	01.06.2008.
Percentage of students (undergraduate study) that have taken e-learning courses	100%	01.06.2008.
Percentage of courses in LMS	100%	01.01.2010.
Number of persons employed in e-learning support center	3	01.01.2010.



E-learning at FOI – Support center

- **Main activities**

- **To provide and to plan e-learning infrastructure**

- Hardware and the software needed for the e-learning process
- Planning for the future requirements

- **Workshops and trainings**

Technically oriented but with elements of pedagogy

- Basic training sessions (LMS usage)
- Advanced training sessions (Advanced LMS usage + pedagogy)

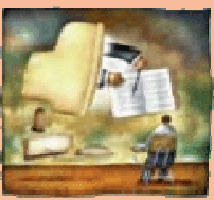
- **To provide help in running e-learning courses**

- Initial set up
- Ongoing counseling on best usage of given technology

- **Help desk**

- Teacher & student support (e-mail based)

- **Special solutions development**



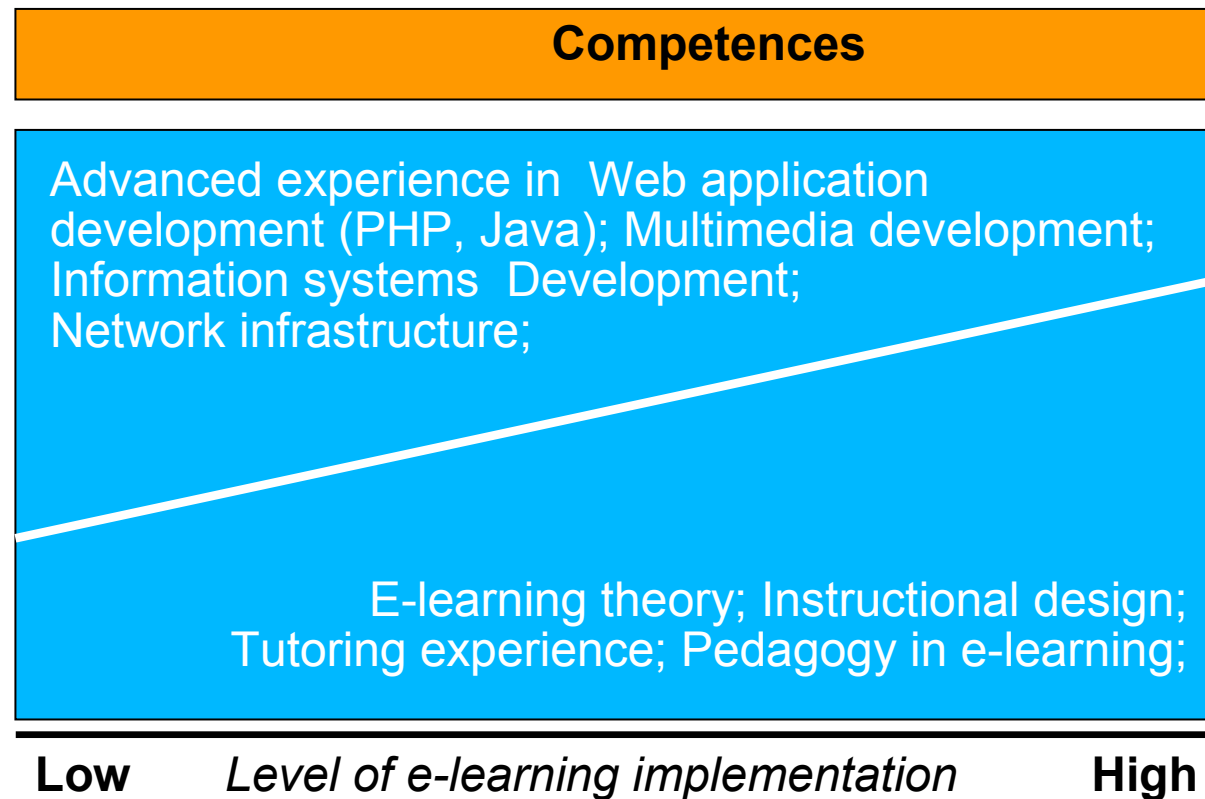
E-learning at FOI – Support center

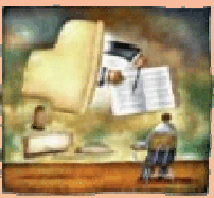
- Additional activities
 - To monitor e-learning implementation at FOI
 - To promote and coordinate activities related to e-learning
 - To provide support for FOI e-learning committee
 - Cooperation with University e-learning Center
 - Research on e-learning
 - Participating in projects on e-learning



E-learning at FOI – Support center

- 1 person working part time on e-learning support (3 persons planed)
- 1 more person will be hired next month (on faculty funds)



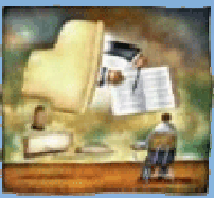


E-learning at FOI – Support center

- How to:

- Form procedures
- Set time for consultations
- Show and explain
- Organize workshops
- Relay on professors to help
 - E-learning introduction to new students
 - Best practice + feedback
 - Help with workshops (pedagogy, examples from practice)
- Automate procedures
 - Automatic course creation
 - Automatic student enrolments
- Promote e-learning
- Relay on Open Source





Information to Highlight

- Important to identify role of e-learning in mission of the faculty
- Support from top management is crucial
 - E-learning strategy
- Required support from the university
 - Financial and in human resources
- Coordination of activities between support centers in Croatia, exchange of good practice
- Coordination of activities between Ministry and Universities