Doctoral School towards European Knowledge Society - DEUKS

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European Association of Universities Council for Doctoral Education EUA-CDE Objectives

To enhance the **quality of doctoral education** at European universities by supporting and strengthening

- I. Exchange & dissemination of good practice
- II. Development of institutional policies
- III. Link between education and research
- IV. Availability of data
- v. International dimension
- vi. Joint programmes
- VII. Dialogue with other stakeholders



I. Exchange & dissemination of good practice

Tempus project **DEUKS**

(2007-2009)

- To promote the current European landscape of doctoral programmes in Serbia;
- To **implement** a pilot Doctoral Programme according to the European innovative recommendations

Doctoral education (third cycle) markedly differentlinking ERA and EHEA two pillars of the modern society



EU

Serbia

I. Exchange & dissemination of good practice DEUKS Consortium members

- University of Udine, Italy grant holder
- INRIA Sophia Antipolis, France
- Polytechnical University of Valencia, Spain
- University of Novi Sad, Faculty of Technical Sciences, Serbia - coordinator
- Mathematical Institute SANU, Belgrade,
- University of Novi Pazar
- Prof. P. Lescanne, ENS de Lyon, France
- Prof. P. Urzyczyn, University of Warsaw, Poland



I. Exchange & dissemination of good practice Changing role of doctoral education

- Comparative analysis of PhD programmes in RS and EU
- European University Association (EUA) <u>http://www.eua.be:</u>
 - Doctoral Programmes for the European Knowledge Society Results of EUA Doctoral Programmes Project, 2005.
 - Doctoral Programmes in Europe's Universities: Achievements and Challenges, 2007.
- Questionnaire analysis and comparison of doctoral programmes in IT in EU and RS
- Dossier (report) published 2009 presented at TREND



Doctoral School towards Earspean Knowledge Society



Doctoral Education

a Road Towards European Knowledge Society

Doktorsko obrazovanje

put ka Evropskom društvu znanja





II. Development of institutional policies

FTS-UNS Joint PhD Programme with MI SANU

- Doctoral Programme Applied Mathematics has been accredited in May 2008 -(the first round)
- Research institutes eligible Law of Higher Education 2005
- Mathematical Institute SANU approved Utilisation of excellent researchers outside of university #####
- October 2008 starting date of the joint programme

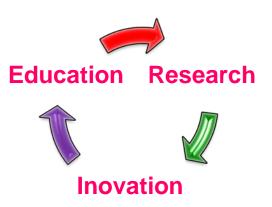
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DEUKS	Main					
Specific Objectives Consortium Members Partner Country Problem	Deuks					
And Needs Analysis Presentation Of Consortium	Welcome to DEUKS	≡				
The Project Summary	Doctoral School towards European Knowledge Society, Tempus Project JEP - 41099 - 2006					
Outcomes	Main aim of this Project is to promote the current European landscape of doctoral programmes in Serbia.					
Coherent system of Doctoral Programmes Promoted Pilot Doctoral Programme	Particulary, the Project will develop and implement a pilot Doctoral Programme according to the European innovative recommendations with comprehensive approach to information technologies, where foundational theories are fully integrated in a pragmatic engineering approach.					
in IT developed Teaching methods developed	Two more specific goals of the project are: to develop new teaching methods and materials for core courses, trainings in transferable skills, and continuing education, as well as to build a research environment for the Doctoral School linking the EHEA and ERA.					
Research environment for PhD students built Dissemination and sustainability	All our aims will be achieved with the help of the Consortium Members: <i>UNIVERSITA DEGLI STUDI DI UDINE (I)</i> - Prof. Marina Lenisa (grantholder) UNIVERSITY OF NOVI SAD (RS) - Prof. Silvia Ghilezan (co-ordinator)					
Quality control and monitoring Management	<u>ONIVERSITY OF NOVESHIE (CO-Ordinator)</u> INSTITUT NATIONAL DE RECHERCHES EN INFORMATIQUE ET EN AUTOMATIQUE - Sophia Antipolis (FR) - Prof. Luigi Liquori MATHEMATICAL INSTITUTE OF THE SERBIAN ACADEMY OF SCIENCE AND ARTS - Belgrade (RS) - Prof. Zoran					
Sites' Activities	Conjanović					
<u>News</u> May 2008, Training Done	We will have help from Individual experts: Pierre Lescanne, Ecole Normale Superieure de Lvon and Novi Sad February 2010 Adduct	•				
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III. Link between education and research

- National projects 6 out of 40 (top ranking) in 2009 over 100 publications in prestigious journals
- **3 FP 6** TYPES, ADHOCSIS, SWEB
- **CEEPUS** Austria, Hungary, Croatia, Romania
- International France, Japan, Italy, Sweden, Slovenia
- **COST** IC0901 new

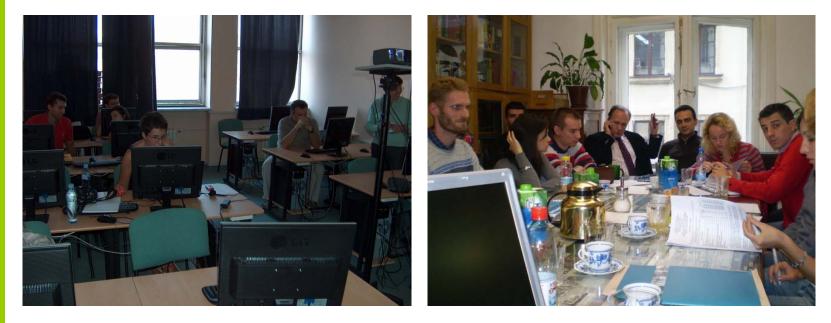
Knowledge Triangle: Excellence in





III. Link between education and research Seminars

Research seminars at MISANU and UNS



V. International dimension

students' mobility (study periods and summer schools)

2008 and 2009

- Jelena Ivetić Bertinoro (Italy); Warsaw (Poland), Udine (Italy), Budapest (Hungary)
- Svetlana Jakšić Bertinoro, Torino, Udine (Italy); Warsaw (Poland), Budapest (Hungary)
- Tibor Lukić Udine (Italy), Budapest (Hungary), Vienna (Austria),...
- Vesna Pavlović Valencia (Spain),...
- Petar Maksimović INRIA (France), Udine(Italy), ...
- Bojan Marinković INRIA (France), Udine (Italy),...



V. International dimension 2000 - 2007

- Silvia Likavec, PhD: U.Torino (Italy) ENS Lyon (France)
- Viktor Kunčak, PhD: MIT (USA)
- Nataša Sladoje, PhD: U.Upsalla (Sweden)
- Dragiša Žunić, PhD: ENS Lyon (France)



V. International dimension co-toutelle or co-supervision 2008 -

- P. Maksimović co-toutelle INRIA and UNS co-supervision of Dr. L. Liquori, Prof. Z. Ognjanović and Prof. S. Ghilezan
- V. Ćurić, Upsalla

co-supervision of Prof.G. Borgefors, Dr. J. Lindblad (Upsalla, Sweden) and Dr.N. Sladoje (UNS)

• S. Jakšić,

co-supervision of Prof. M. Dezani (Torino, Italy) and Prof. J. Pantović (UNS)

• J. Ivetić,

co-supervision of Prof. P. Lescanne (Lyon, France) and Prof. S. Ghilezan (UNS)

Summer school Novi Sad June 14-27, 2009 FIT – Foundation of IT http://cms.uns.ac.rs/fit2009







Creative research environment







Participants: students – companies – public sector

	52 Ph D students	 Region France Italy	<image/>
	IT companies	TelekomRT-RK	
	Public sector	• JGSP • Info	



VI. Future – Joint Programmes

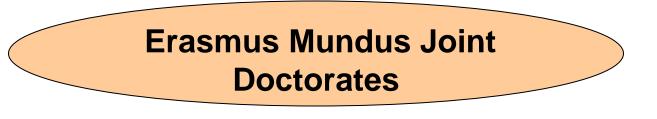
Joint Doctoral Programme

"Science of Information Technologies"

Universities: Udine, Valencia, Novi Sad, Novi Pazar.

Research Institutes: INRIA-Sophia Antipolis, MI-SANU Belgrade, ENS Lyon, Mathematical Institute Sofia.

Associated members: Municipality of Udine, City of Novi Sad, Centar za nove tehnologije Viminacium, Friuli Innovazione.



Investment in excellent people & research as an imperative!!!

- scholarships
- work load
- post-doc
- "master/slave"
- supervision
- employment out of academia

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- brain drain reduction
- new initiatives
- impact on the "triangle"
- long term impact