Doctoral School towards European Knowledge Society - DEUKS

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Faculty of Technical Sciences University Novi Sad
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

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1. 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 different-linking ERA and EHEA two pillars of the modern society

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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) [http://www.eua.be](http://www.eua.be):
  - Doctoral Programmes for the European Knowledge Society
  - Results of EUA Doctoral Programmes Project, 2005.
- Questionnaire – analysis and comparison of doctoral programmes in IT in EU and RS
- Dossier (report) published 2009 - presented at TREND

Doctoral Education –
a Road Towards European Knowledge Society

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Doctoral Education
a Road Towards European Knowledge Society

Doktorsko obrazovanje
put ka Evropskom društvu znanja

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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
Welcome to DEUKS

Doctoral School towards European Knowledge Society, Tempus Project JEP - 41099 - 2006

Main aim of this Project is to promote the current European landscape of doctoral programmes in Serbia.

Particularly, 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.

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.

All our aims will be achieved with the help of the Consortium Members:

- UNIVERSITA DEGLI STUDI DI UDINE (I) - Prof. Marina Lenisa (grantholder)
- UNIVERSITY OF NOVI SAD (RS) - Prof. Silvia Ghilezan (co-ordinator)
- 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 Ognjanović
- UNIVERSIDAD POLITECNICA DE VALENCIA - Valencia (ES) - Prof. Salvador Lucas

We will have help from Individual experts:
- Pierre Lescanne, Ecole Normale Superieure de Lyon and

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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

Education Research

Inovation
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), ...

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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

The Summer School on Foundations of Information Technologies, FIT, will be held in Novi Sad, in Serbia, between June 14 and June 27, 2009. It will offer a number of PhD courses for all the students, from Serbia and abroad, interested in this field. In addition to the lectures on selected topics related to the theory and applications of Information technologies, students will have an opportunity to work in small teams on specific scientific assignments. Such an approach supports the main idea of modern doctoral education – training for research by doing research.

The organizer of FIT is The Chair of Mathematics, Faculty of Technical Sciences in Novi Sad. The FIT Summer School is supported by the TEMUS Programme through the Project “Doctoral School towards European Knowledge Society – DEUKS”. All the partner institutions in the DEUKS Project are giving valuable contribution to the Summer School, ensuring its high scientific and educational quality. The lecturers are professors from Università degli Studi di Udine, Italy, University Politecnica de Valencia, Spain, and INRIA Sophia Antipolis, France.

Tempus project DEUKS aims at promotion of the current European landscape of doctoral education in Serbia. The developed and implemented Pilot Doctoral Programme in information technologies at the Faculty of Technical Sciences in Novi Sad, jointly run with the Mathematical Institute, SANU, Belgrade, strongly relies on the European innovative recommendations and improved and new teaching methods. Summer School FIT is an important step on the way towards modern and efficient doctoral education in Serbia, and our further integration into the European knowledge society.

Important dates
Deadline for applications: May 15, 2009
Opening: June 14, 2009
Closing: June 27, 2009

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http://cms.uns.ac.rs/fit2009
Creative research environment

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Participants:
students – companies – public sector

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VI. Future – Joint Programmes

- Joint Doctoral Programme
  “Science of Information Technologies”

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.

Erasmus Mundus Joint Doctorates
Investment in excellent people & research as an imperative!!!
Investment in excellent people & research as an imperative!!!

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

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

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