




IPA HU-SRB HUSRB/0901/121/008, 2013 - 2014

**Non-Standard Forms of Teaching Mathematics and Physics:
Experimental and Modeling Approach**

December 1, 2013 – May 31, 2015

University of Szeged
Bolyai Institute
Department of Medical Physics and Medical Informatics

University of Novi Sad, Faculty of Sciences
Department of Mathematics and Informatics
Department of Physics

Activities

- Teaching developments in Mathematics and Physics
- International intensive school (3-3 days in Szeged and Novi Sad)
- Special schools
- Open days
- Math Art exhibition
- Math contest for high school students: Interdisciplinary prizes
- Conference on Modeling in Life Sciences, Szeged
- Pannonian Modeling Conference, Novi sad
- Project workshops, team trainings
- Information and publicity
- Procurements






Information and publicity

Activity materials












Events

Hungary-Serbia
EU Cross-Border Co-operation Programme

Higher Mathematica: Modeling Differential and Difference Equations, Szeged, June 10 – 13, 2014



26 participants from
Hungary, Serbia, Romania, Germany
Czech Republic

Hungary-Serbia
EU Cross-Border Co-operation Programme

Szeged Summer School on Mathematical Epidemiology August 4 – 6, 2014


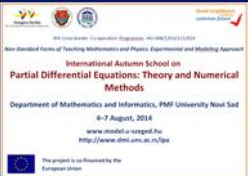
20 participants from
Hungary, Serbia, Austria, England,
Czech Republic

Hungary-Serbia
EU Cross-Border Co-operation Programme

Partial Differential Equations: Theory and Numerical Methods, Novi Sad, 16-19 October, 2014

8 participants from
Hungary, Serbia

Hungary-Serbia
EU Cross-Border Co-operation Programme

Events: Open days



Mathematics everywhere...

Art contest and exhibition, Szeged, Sept. 26 - Oct. 31, 2014

Interdisciplinary prizes

Math contest for high school students

Meet the Professors

Szeged, Novi Sad, Subotica, Zenta, ...

Interdisciplinary Conference on Modeling in Life Sciences

Szeged, November 3, 2015

organized by Bolyai Institute, University of Szeged

... and now:

**Szeged – Novi Sad Winter School 2015:
Non-Standard Forms of
Teaching Mathematics and Physics**

**Szeged Winter Training 2015:
Mobile Tools and Dynamic Modeling in Learning
Mathematics**

Szeged, January 30, 2015

Further events

Pannonian Math. Modelling, Novi Sad, April 25-26, 2015

More open days, lectures, workshops

Some more information...

Physics experimental teaching

- Producing Edaq530 equipments
- Installing Edaq530 equipments at the partner universities and high schools
- Installing a BioPac Student Lab in Novi Sad
- Medical Physics lab descriptions with BioPac and Edaq530 (HU-SRB-EN)
- High School Physics lab experiment descriptions with Edaq530
- Physics test database related to the Biopac and Edaq530 based materials



Teaching developments in Mathematics



Dynamic and mobile tools in Math education:

Dynamic and mobile tools in math education; literature, experiences, current available applications, development of new dynamic teaching materials in the focused fields, preferring the availability on tablets and smart phones

Computer tools and numerical method of differential equations; Biomathematical modeling and math for sciences:

Development of experimental intensive as well as traditional curricula, including series of dynamic presentations and collections of computer experiments for Differential equations, Biomathematics and Math in sciences

www.model.u-szeged.hu



The screenshot shows the homepage of the website www.model.u-szeged.hu. The header includes the Hungary-Serbia logo and the European Union flag. The main content area features a sidebar with navigation links such as 'Activities', 'Galleries', 'Photo albums', 'Teams', 'Projects', 'Students' works', 'Forum', 'Download', 'Links', and 'Sitemap'. The main content area displays a section titled 'Mathematics and Computer - Aided Modeling in Sciences' with a logo of a flower. Below this, there is a section for 'SZEGLÉD - NOVI SAD WINTER SCHOOL - 2015' with details about the date, location, and program. The program is titled 'Non-Standard Forms of Teaching Mathematics and Physics: Experimental and Modeling Approach' and runs from January 30 to February 1, 2015, in Szeged, and from February 6 to 8, 2015, in Novi Sad. A 'New!' section highlights the final programme, course descriptions, and required software tools. A 'Summary' section states that the program is a very important basis of intellectual and economic development, emphasizing the improvement of creativity, problem-solving abilities, and applicable scientific knowledge, as well as the effective use of computational tools and methods in research and teaching.

<http://www.dmi.uns.ac.rs/ipa>

