

Volume Index :: 2015(1)**Editorial Team****Contents****Authors Index****Editorial Team****Scientific Board**

- Dr.h.c. prof. Ing. Peter Bielik, Ph.D., Slovak University of Agriculture in Nitra, SK
- prof. Dr. Ing. Elena Horská, Slovak University of Agriculture in Nitra, SK
- doc. RNDr. Dana Országhová, CSc., Slovak University of Agriculture in Nitra, SK
- doc. RNDr. Václav Nýdl, CSc., University of South Bohemia in v České Budějovice, CZ
- RNDr. Radovan Potůček, Ph.D., University of Defence, Brno, CZ
- Dr. Inż. Patrycja Hąbek, Silesian University of Technology, Zabrze, PL
- prof. Volodimir M. Bulgakov, National University of Life and Environmental Sciences of Ukraine, UA
- Dr. Vinogradov Sergey, Szent István University, Gödöllő, HU
- Dr. Ugrósdy György, Szent István University, Gödöllő, HU
- Henrietta Nagy, Ph.D., Szent István University, Gödöllő, HU
- prof. RNDr. Ján Čížmár, Ph.D., Universitas Tyrnaviensis, Trnava, SK
- prof. RNDr. Anna Tirpáková, CSc., Constantine The Philosopher University in Nitra, SK
- prof. RNDr. Ondrej Šedivý, CSc., Constantine The Philosopher University in Nitra, SK
- doc. RNDr. Eduard Bodá, CSc., Comenius University in Bratislava, SK
- doc. RNDr. Štefan Solčan, Ph.D., Comenius University in Bratislava, SK
- doc. RNDr. Mária Mišútová, Ph.D., Slovak University of Technology in Bratislava, SK
- doc. RNDr. Daniela Velichová, CSc., Slovak University of Technology in Bratislava, SK
- Ing. Pavol Flák, DrSc., Slovak Academy of Agricultural Sciences, Lužianky, SK

Editorial Board

- doc. RNDr. Dana Országhová, CSc., Slovak University of Agriculture in Nitra, SK :: **Editor in Chief**
- Mgr. Vladimír Matušek, Ph.D., Slovak University of Agriculture in Nitra, SK
- Mgr. Norbert Kecskés, Ph.D., Slovak University of Agriculture in Nitra, SK
- Ing. Tomáš Poláčik, Slovak University of Agriculture in Nitra, SK

Mathematical scientific, peer-reviewed, open access, online journal.

ISSN: 2453-6881

Journal Website: <http://meraa.uniag.sk>

Journal acronym: MERA

Journal title abbreviation: Math Educ Res Appl

Periodicity: Journal is published 2 times per year.



Contents**No. 1**

The utilization of a personal response system to motivate the students of the course of mathematics – Part I Václav Nýdl	.....	1
The problems with the mathematics during laboratory exercises in physics – how to solve them? Jana Gabková, Soňa Halusková	.....	6
Application of numerical integration in technical practice Jozef Rédl, Veronika Váliková, Dušan Páleš, Ján Antl	.....	12
The centre of gravity in technical practice Vladimír Matušek, Eva Matušeková	.....	18
"Problems" in determining the convergence of infinite series Tomáš Pechočiak, Lucia Rumanová	.....	23
Pedagogical and statistical analysis of students' mathematical and language competences Dana Országhová, Jarmila Horváthová	.....	28
Investigation of the state of education in computer science in study programs of economic and managerial orientation Marcela Hallová, Ján Záhorec, Klára Hennyeyová, Vladimír Popelka	.....	36

No. 2

Sum of generalized alternating harmonic series with three periodically repeated numerators Radovan Potůček	.....	42
Bezier curve and its application Dušan Páleš, Jozef Rédl	.....	49
Pupils' strategies in solving problems from combinatorics and probability theory Radka Hájková	.....	56
Are proofs necessary? Marek Varga, Zuzana Naštícká	.....	64
Some notes on the financial literacy of the slovak students – case study Janka Drábeková, Soňa Švecová	.....	68
Some notes on inverse matrix calculation Norbert Kecskés	.....	73

Authors Index**Antl Ján** (12)**Nýdl Václav** (1)**Drábeková Janka** (68)**Országhová Dana** (28)**Gabková Jana** (6)**Páleš Dušan** (12, 49)**Hájková Radka** (56)**Pechočiak Tomáš** (23)**Hallová Marcela** (36)**Popelka Vladimír** (36)**Halusková Soňa** (6)**Potůček Radovan** (42)**Hennyeyová Klára** (36)**Rédl Jozef** (12, 49)**Horváthová Jarmila** (28)**Rumanová Lucia** (23)**Kecskés Norbert** (73)**Švecová Soňa** (68)**Matušek Vladimír** (18)**Váliková Veronika** (12)**Matušeková Eva** (18)**Varga Marek** (64)**Naštická Zuzana** (64)**Záhorec Ján** (36)