

Dr KOVAČEVIĆ S. Milan

BSc-Physics (Kragujevac), MSc-Physics (Belgrade), PhD (Kragujevac), Serbia

Associate Professor



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EDUCATION

PhD-Physics (Faculty of Science, Department of Physics, Kragujevac) Serbia
Area: Applied Physics (Applied optics)

MSc-Physics (Faculty of Physics, Belgrade) Yugoslavia
Area: Theoretical Plasma Physics

BSc-Physics (Faculty of Science, Department of Physics, Kragujevac) Yugoslavia
Area: Theoretical Physics

RESEARCH INTERESTS

- **Applied Physics**
- **Plasma Physics**
- **Physics Education**

- Ray analysis of step- and graded-index optical waveguides;
- Electromagnetic analysis of step- and graded-index optical waveguides;
- Transmission properties (optical power, loss, dispersion, bandwidth, temperature and radiation induced loss etc.) of step- and graded-index plastic optical fibers;
- Polysilicon thin film transistors;
- Dispersion relation of surface plasma waves;
- Coherent nonlinear structures in two-dimensional compressional MHD;
- Physics education.

TEACHING/ Current Courses:

Undergraduate (BSc and MSc)

- Plasma Physics
- Optical Waveguides
- Electrodynamics (classical)
- Teaching tools in physics teaching (demonstration experiment);
- Biophysics (University of East Sarajevo)

Postgraduate (PhD)

- Selected chapters in physics of waves

EMPLOYMENT

1993 - 1995: Physics teacher, High School, Valjevo, Yugoslavia.
1995 - 2006: Assistant, Department of Physics, Faculty of Science, University of Kragujevac, Yugoslavia.
1996-2004: Teaching Assistant (biophysics), Medical Faculty of University of Serb Sarajevo.
2002: Research Assistant (6 months), City University of Hong Kong, MEEM Department, (Project “ <i>Curvature gauge made of glass optical fibers</i> ”).
2005: Research Assistant (3 months), City University of Hong Kong, MEEM Department, (Project “ <i>Mode Coupling in Plastic Optical Fibers</i> ”).
2006: Research Assistant (3 months), City University of Hong Kong, MEEM Department, (Project “ <i>Mode Coupling in Plastic Optical Fibers</i> ”).
2007: 12-23 February, Winter College on Fiber Optics, Fiber Lasers and Sensors, ICTP Trieste, Italy
2008: Senior Research Assistant (3 months), City University of Hong Kong, MEEM Department, (Project “ <i>Mode Coupling in Plastic Optical Fibers</i> ”).
2009: Research Fellow (3 months), City University of Hong Kong, MEEM Department, (Project “ <i>Power Transfer in Curved Polymer Optical Fibers</i> ”).
2008 - 2012: Assistant Professor, Department of Physics, Faculty of Science, University of Kragujevac, Serbia.
2012: Research Fellow (2 months), City University of Hong Kong, MBE Department, (Project “ <i>Effects of gamma radiation on light transmission by step-index plastic optical fibers</i> ”).
2012 -2013: Assistant Professor, Department of Physics, Faculty of Science, University of Kragujevac, Serbia.
2013, 2014 - Teaching Excellence Award (Department of Physics).
2014: Research Fellow (1 month), City University of Hong Kong, MBE Department, (Projects “ <i>Effects of gamma radiation on light transmission by step-index plastic optical fibers</i> ” and “ <i>Design of W shaped plastic optical fibers</i> ” and “ <i>Advancing the Design of W-type Plastic Optical Fibers</i> ”).
2014 – present: Associate Professor, Department of Physics, Faculty of Science, University of Kragujevac, Serbia

OTHER ACTIVITIES

Reviewer:

- Optical and Quantum Electronics
- Measurement Science and Technology
- Chinese Physics Letters
- Journal of Optics & Laser Technology
- IEEE Sensors Journal
- Computer Applications in Engineering Education
- Journal of Optics
- Journal of Electromagnetic Waves and Applications (JEMWA)
- Progress in Electromagnetic Research (PIER, PIER B,C,M, PIER Letters)
- Journal of Physics D: Applied Physics
- Advanced in Optical Technology
- Applied Optics
- European Journal of Physics

PROFESSIONAL MEMBERSHIP

- The Optical Society of Serbia (2012)
- Yugoslav Association of Physics (1995-2000)
- Serbian Association of Physics (2010)

ADMINISTRATIVE CONTRIBUTIONS

2011- present: Head of Department of Physics (Faculty of Science, University of Kragujevac, Serbia)

CONFERENCE ORGANIZATION

- Organizing Committee, XXX Republican Seminar in Physics Teaching, 2012, Vranje, Serbia.
- Organizing Committee, Serbian Conference of Physics and XXXI Republican Seminar in Physics Teaching, 2013, Belgrade, Serbia.
- Organizing Committee, XXXII Republican Seminar in Physics Teaching, 2014, Vršac, Serbia.

BOOKS/CHAPTERS

Kovacevic M., Djordjevich A., **Introduction to theory of optical waveguides**, Faculty of Science, Kragujevac, 2013, ISBN 978-86-6009-024-1, 191 pages.

SELECTED PUBLICATIONS/International Journals on ISI list

1. **Kovacevic M.**, Nikezic D., and Djordjevic A., Monte Carlo simulation of curvature gauges by ray tracing, *Meas. Science Tech.* **15** (2004) 1756-1761
2. **Kovacevic M.**, Nikezic D., and Djordjevich A., Modelling of the Loss and Mode Coupling that are Due to Irregular Core-Cladding Interface in SI POF, *Applied Optics* **44**, (2005) 3898-3903
3. Babovic V., **Kovacevic M.**, and Kanjevac K., An Efficient Iterative Procedure for Solution of Plasma Loaded Helical Waveguide Problems, *Chinese Physics Letters*, **22**, (2005) 3123-3126
4. Babovic V., **Kovacevic M.**, and Djordjevich A., Numerical investigations of guided plasma waves beyond the quasistatic limits, *Wave Motion*, **43/6** (2006) 499-507
5. **Kovacevic M.**, and Nikezic D., The influence of the bend on the power distribution in step-index plastic optical fibers and calculation of the bending loss, *Applied Optics* **45** (2006) 6675-6681
6. **Kovacevic M.**, Djordjevich A., and Nikezic D., Effect of end-face tilt-angle on numerical aperture for straight and bent plastic optical fibers, *Fiber & Integrated Optics* **26.2** (2007)
7. Cabric, B., **Kovacevic M.**, Pavlovic, T., Crystallization in a chamber furnace, *J. Applied Crystallography*, **30**, 512, (1996)
8. **Kovacevic M.** and Djordjevich A., A mechanical analogy for the photoelectric effect, *Physics Education* **41** (6) (2006) 551-555
9. **Kovacevic M.**, Nikezic D., Reply to Comment on Influence of bending on power distribution in step-index fibers and calculation of bending loss, *Applied Optics* **46** 4869-4870 (2007)
10. **Kovacevic M.**, Djordjevich A. and Nikezic D., Analytical Optimization of Optical Fibre Curvature Gauges, *IEEE Sensors Journal* **8**, 227-232 (2008)
11. **Kovacevic M.**, Djordjevich A., Thermal Diffusion Process estimation for fabrication of graded plastic optical fibers, *Chinese Physics Letters* **25** (11) 4030-4033 (2008)
12. **Kovacevic M.**, Djordjevich A., Nikezic D., Light propagation in thermally expanded core fibers with graded-index, *Optica Applicata* **39** (2) 267-276 (2009)

13. **Kovacevic M.**, Djordjevich A., Variation of modal dispersion and bandwidth with temperature in PMMA based step-index polymer optical fibers, *Journal of Optoelectronics and advanced materials*, **11** (11) 1821-1825 (2009)
14. **Kovacevic M.**, Djordjevich A., Temperature dependence analysis of mode dispersion in step-index polymer optical fibers, *Acta Physica Polonica A* **116** (4) 649-651(2009)
15. Savovic S., Djordjevic A., Drljaca B., **Kovacevic M.**, Comparison of methods for calculating coupling length in step-index optical fibers, *Acta Physica Polonica A* **116** (4) 652-654 (2009)
16. Simic S., **Kovacevic M.**, Computer sound card as a tool to study of fast changing electromagnetic phenomena, *Computer Applications in Engineering Education*, DOI: 10.1002/cae.20458 (2010)
17. **Kovacevc M.**, Djordjevich A., Investigation of influence of tilt angle on mode dispersion in step-index plastic optical fibers, *Opto-Electronics Review* **19** (1), 61–65 (2011).
18. **Kovacevic M.**, Simic S., Plastic Optical Fiber as a Tool for Experimenting with Simple Pendulum, *Revista Brasileira de Ensino de Fisica*, **32** (3), (2011)
19. **Kovacevic M.**, Djordjevich A., Third order material dispersion analysis in some types of glass optical fibers, *Journal of optoelectronics and advanced materials* **14** 198-204 (2012)
20. **Kovacevic M.**, Djordjevich A., An analysis of modal dispersion in plastic optical fibers having W-shaped refractive index, *Physica Scripta* **T149**doi:10.1088/0031-8949/2012/T149/014030 (2012).
21. **Kovacevic M.**, Djordjevich A., and Nikezic D., Monte Carlo simulation of Goos-Hänchen shifts in multimode step-index plastic optical fibers, *Physica Scripta* **T149** doi/10.1088/0031-8949/2012/T149/014029 (2012)
22. **Kovacevic S M.**, Savovic S., Djordjevich A., Bajic J., Stupar D., Kovacevic M., Simic S., Measurement of growth and decay of radiation induced attenuation during the irradiation and recovery of plastic optical fibers, *Optics & Laser Technology* **47** 148-151 (2013).
23. S. Savovic, **M. S. Kovacevic**, A. Djordjevich, J. S. Bajic, D. Z. Stupar, M. P. Slankamenac, G. Stepniak, "Measurement of mode coupling in low NA plastic optical fibers" (submitted, 2013).
24. **M. S. Kovacevic**, A. Djordjevich, S. Savovic, J. S. Bajic, D. Z. Stupar, M. P. Slankamenac, M. Kovacevic, Measurement of ^{60}Co gamma radiation induced attenuation in multimode multimode step-index POF at 530 nm, *Nuclear Technology & Radiation Protection* **28** (2) 158-162 (2013).
25. Jelenkovic E., **M. S. Kovacevic**, J. S. Bajic, D. Z. Stupar, M. P. Slankamenac, M. Kovacevic, and Suet To, N-channel polysilicon TFTs as gamma-ray detectors, *Measurement Science and Technology* **24** (2013) 105103-1 - 105103-5.

26. Svetislav Savović, **Milan S. Kovačević**, Alexandar Djordjevich, Jovan S. Bajić, Dragan Z. Stupar, Grzegorz Stepniak, Mode coupling in low NA plastic optical fibers, *Optics & Laser Technology* **60** (2014) 85-89.
27. Emil V. Jelenković, **Milan S. Kovačević**, Dragan Z. Stupar, Shrawan Jha, Jovan S. Bajić, K.Y. Tong, Positive bias temperature instability of irradiated n-channel thin film transistors, *Thin Solid Films* **556** (2014) 535-538.
28. S. Savovic, B. Drljaca, **M. S. Kovacevic**, A. Djordjevich, J. S. Bajic, D. Z. Stupar, G. Stepniak, Calculation of the frequency response and bandwidth in low NA step index plastic optical fibers (submitted).

SELECTED PUBLICATIONS/ International conference papers

1. Djordjevich A., Kovacevic M. and Nikezic D., Curvature Gauge simulation by ray tracing, *5th General Conference of the Balkan Physical Union*, (2003) 947-952
2. Kanjevac K., Babovic V and Kovacevic M., Basic equations of plasma loaded helical waveguide treated by fixed point method, *5th General Conference of the Balkan Physical Union*, (2003) 1121-1124
3. Kovacevic M and Nikezic D., A desktop apparatus for studying projectile motion and measuring the gravity acceleration, g., *5th General Conference of the Balkan Physical Union*, (2003)
4. K., Kanjevac, V., Babovic and M., Kovacevic, Fixed Point Method in Plasma Loaded Helical Waveguide Problems, *22nd Summer School and International Symposium on the Physics of Ionized Gases, Tara, Serbian and Montenegro*, (2004) 437-440
5. D. Jovanovic and M. Kovacevic, Coherent Nonlinear Structures in two-dimensional Compressional MHD, *22nd Summer School and International Symposium on the Physics of Ionized Gases, Tara, Serbian and Montenegro*, (2004) 540-544
6. V. Babovic, M. Kovacevic, and K. Kanjevac, EM Waves in Plasma Waveguides – Numerical treatment based on the fixed point method, *XLVIII Conference for electronics, telecommunications, computers, automation and nuclear engineering, Serbia and Montenegro, Belgrade* (2004) 193-195
7. Kovacevic M., Djordjevich A., Nikezic D., An analytical approach and optimization of curvature gauge, *IOP, J. Phy. Conference Series* **48** (2006) 850-858 *4th International Symposium on Instrumentation Science and Technology, Harbin, China*, (2006)
8. Kovacevic M., Nikezic D., Djordjevich A., Modeling of light propagation in step-index polymer optical fibers with random imperfections by ray tracing, *Winter College on Fiber Optics, Fiber Lasers and Sensors*, 12-23 February 2007, ICTP Trieste, Italy.
9. Kovacevic M., Djordjevich A., Temperature dependence analysis of mode dispersion in step-index polymer optical fibers, *II International School and Conference on Photonics*, 24-28 August 2009, Belgrade, Serbia (Book of Abstracts: p.128).

10. Savovic S., Djordjevich A., Drljaca B., Kovacevic M., Comparison of methods for calculating coupling length in step-index optical fibers, *II International School and Conference on Photonics*, 24-28 August 2009, Belgrade, Serbia (Book of Abstracts: p.129).

11. Kovacevic M., Djordjevich A., Janicijevic A., An estimation of material dispersion in optical fibers, *Sixth International Scientific Conference Contemporary Materials* 4-6 July 2013, Banja Luka, BiH, has finished on July 6 (Book of Abstracts:).

SELECTED PUBLICATIONS/ National journals (in English):

1. Babovic, V., Milojevic, S., Kovacevic, M., Axially symmetric electron plasma surface waves on equivalent cylindrical guiding structures, *Collection of Scientific papers of Faculty of Science*, **17**, (1995) Kragujevac 107-122

2. Babovic, V., Kovacevic, M., An estimation of the plasma column length in a discharge of the surfatron type, *Collection of Scientific papers of Faculty of Science*, **19** (1997) Kragujevac 85 - 93

3. Babovic, V., Kovacevic, M., Evaluating of the dispersion relation of the surface electron plasma waves by fixed point method, *J. Res. Physics* **28**, (2002) 5-12

4. Kanjevac K., Babovic V., Kovacevic M., *Improved Numerical solutions to plasma loaded helical waveguide,* *J. Sci.*, **25**, Kragujevac, (2003) 21-40

5. Danilovic N., Kovacevic M., Babovic V., Could variable mass oscillator exhibit the lateral instability ?, *J. Sci.* **30** Kragujevac, Serbia (2008) 31-44.

SELECTED PUBLICATIONS/ National Conference papers (in English):

1. Kovacevic M., Demonstration of the photoelectric effect by one mechanical model, *Phys. Congress Serbia and Montenegro*, Petrovac, (2004) 83-86

2. Babovic V., Kovacevic M., and Kanjevac K., Characteristic impedance of the plasma waveguide: treatment by the fixed point method, *Phys. Congress, Serbia and Montenegro*, Petrovac, (2004) 35-38

3. Nikezic D, Yu K.N., Kovacevic M., Stevanovic N., Krstic D., Kostic D., Janicijevic A., The Optical Characters of the particle trace, *Phy. Congress, Serbia and Montenegro, Petrovac*, (2004) 135-138

4. Kovacevic, M., Babovic, V., Evaluating of the dispersion relation of the surface electron plasma waves, *X Conference of Physicists of Yugoslavia, V. Banja 27-29. March (2000), Proc. II., 733-736*

5. Kovačević S. Milan, Using WKB method to analyze of the propagation modes in the W-optical fiber, *Phy. Congress, Serbia, V. Banja*, (2013) 320-323

SELECTED PUBLICATIONS/ National Conference papers (in Serbian):

1. Kovačević M., Jedan opšti algoritam za rešavanje računskih zadataka iz fizike, Republički seminar o nastavi fizike, V. Banja 2003, Zbornik radova 100-103.
2. Kovačević M., Demonstracija trećeg Njutnovog zakona, Republički seminar o nastavi fizike, Soko Banja 2004, Zbornik radova 147-151.
3. Kovačević M., Šta svaki profesor fizike treba da zna o optičkom vlaknu, Republički seminar o nastavi fizike, V. Banja 2007, Zbornik radova 182-187.
4. Kovačević M., Popović M., Spasić A., Merenje osvetljenosti pomoću luksmetra, Republički seminar o nastavi fizike, V. Banja, 2009, Zbornik radova 118-122.
5. Kovačević M., Jovanović S., Određivanje magnetske permabilnosti vakuuma μ_0 , Republički seminar o nastavi fizike, V. Banja, 2009, Zbornik radova 123-126.
6. Kovačević M., Akisć N., Merenje koeficijenta slabljenja u plastičnom optičkom vlaknu, Republički seminar o nastavi fizike, V. Banja, 2010, Zbornik radova.
7. Kovačević M., Simić S., Jedno preciznije određivanje ubrzanja zemljine teže, Republički seminar o nastavi fizike, V. Banja, 2010, Zbornik radova.
8. Kovačević M., Jovanović S., Merenje horizontalne komponente indukcije magnetnog polja Zemlje, Republički seminar o nastavi fizike, Vranje, 2011, Zbornik radova.
9. Kovačević M., Jovanović B., Laboratorijske vežbe iz mehanike, Radionica na Republičkom seminaru o nastavi fizike, Vranje, 2011, Zbornik radova.
10. Ilić S., Živković B., Kovačević M., Jovanović B., Regionalni seminari u Šumadiji u funkciji unapređivanja proučavanja fizike, Republički seminar o nastavi fizike, Vranje, 2011, Zbornik radova.
11. Kovačević M., Oscilatorna Atvudova mašina, Republički seminar o nastavi fizike, Beograd, 2012, Zbornik radova.
12. Kovačević M., Ispit za licencu – Analiza nastavnog časa, Republički seminar o nastavi fizike, Beograd, 2012, Zbornik radova.
13. Kovačević M., Laboratorijske vežbe za VIII razred, Radionica na Republičkom seminaru o nastavi fizike, Beograd, 2012, Zbornik radova.
14. Kovačević M., Električna svojstva munje, Republički seminar o nastavi fizike, V. Banja, 2013, Zbornik radova.
15. Kovačević M., Jovanović B., Značaj biofizike u medicini, Republički seminar o nastavi fizike, V. Banja, 2013, Zbornik radova.
16. Jovanović B., Kovačević M., Teorije reproduktivnog i kreativnog učenja i nastava fizike, Republički seminar o nastavi fizike, V. Banja, 2013, Zbornik radova.
17. Kovačević M., Jovanović B., Izabrani ogledi u nastavi fizike, Republički seminar o nastavi fizike, Vpšac, 2014, Zbornik radova.

SELECTED PUBLICATIONS/ Physics Education (in Serbian):

1. Babović V., Kovačević M., Kako "osporiti" zakon spojenih sudova, *Fizika i tehnika*, Valjevo, 1995.
2. Kovačević M., Metodički putevi, *Prosvetni pregled, Pedagoška praksa* 2203 (29) 2003.
3. Kovačević M., Začarani krug, *Prosvetni pregled, Pedagoška praksa* 542, 2003.
4. Kovačević M., Njtn u školskoj laboratoriji, *Prosvetni pregled, Pedagoška praksa*, br. 525, 2003.
5. Kovačević M., Od kviza do eksperimenta, *Prosvetni pregled, Pedagoška praksa* 538, 2003.
6. Kovačević M., Tabla kao olakšanje, *Prosvetni pregled, Pedagoška praksa* 536, 2003.
7. Kovačević M., Učenje kroz slike, *Prosvetni pregled, Pedagoška praksa* 533, 2003.
8. Kovačević M., Demonstracijom protiv dosade, *Prosvetni pregled, Pedagoška praksa*, br. 531, 2003.
9. Čabrić B, Kovačević M., Nauka o materijalima, *Prosvetni pregled, Pedagoška praksa*, 2003.
10. Čabrić B., Kovačević M., Kristalizaciona klupa, *Prosvetni pregled, Pedagoška praksa* 518, 2002.
11. Kovačević M., Rešenje od zlata, *Prosvetni pregled, Pedagoška praksa* 575. Oktobar 2004.
12. Kovačević M., Na početku bez formula, *Prosvetni pregled, Pedagoška praksa*, Maj 2006.
13. Kovačević M., Jovanović S., Magnteno polje Zemlje. Teorija i eksperiment, Seminar o nastavi fizike, PMF Kragujevac, Januar 2011.

OTHER RELEVANT ACTIVITIES/ Mentor/ Membership in various commissions for BSc, MSc and PhD:

Mentor:

1. Janković Ivan, *Elektromagnetna indukcija u osnovnoj i srednjoj školi* (BSc in physics, mentor: M. Kovačević, 2009)
2. Josić Miloš, *Modelovanje disperzije u gradijentnom optičkom vlaknu*, (BSc in physics, mentor: M.Kovačević, 2009)
3. Knežević Vladimir, *Demonstracioni eksperimenti iz elektrostatike*, (BSc in physics, mentor: M. Kovačević, 2009)
4. Stefanović Vladan, *Talasni modovi u optičkom vlaknu sa stepenastom raspodelom indeksa prelamanja* (BSc in physics, mentor: M. Kovačević, 2010)
5. Aćimović Jovan, *Fotodetektor i njihova primena u optičkim komunikacijama*, (BSc in physics, mentor: M. Kovačević, 2011).
6. Kačarević Goran, *50 godina istraživanja fuzije*, (BSc in physics, mentor: M. Kovačević, 2011).
7. Šarenac Dušan, *Primena Fresnelovih formula na plastična optička vlakna* (BSc in physics, mentor: M. Kovačević, 2011)
8. Đorđević Ana, *Munja* (BSc in physics, mentor: M. Kovačević, 2011)
9. Kuzmanović Ljubica, *Rešavanje talasne jednačine u gradijentnom optičkom vlaknu primenom WKB metoda* (Master diploma, mentor: M. Kovačević, 2013)
10. Vasović Svetlana, *Projektna nastava fizike* (Master diplom, mentor: M. Kovačević, 2014)

Membership in various commissions:

1. Simović Ana, Faculty of Science, Department of Physics, Kragujevac, Serbia (PhD, 2014, membership in commission)
2. Stupar Dragan, Faculty of Technical Science, Novi Sad, Serbia (PhD, 2014, membership in commission)
3. Bajić Jovan, Faculty of Technical Science, Novi Sad, Serbia (PhD, 2014, membership in commission)

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1. Vranić Milan, *Simulacija različitih geometrijskih struktura plastičnih optičkih vlakana*, (Master diploma, Novi Sad, 2010, membership in commission)
-

1. Simović Ana, (BSc, 2009, membership in commission)
2. Janković Jelena, (BSc, 2009, membership in commission)
3. Krstojkić Marina, (BSc, 2009, membership in commission)
4. Antonijević Sandra (BSc, 2009, membership in commission)
5. Jelić Sanela (BSc, 2010, membership in commission)
6. Milić Ana (BSc, 2010, membership in commission)
7. Janković Ana (BSc, 2010, membership in commission)
8. Ralević Dragica (BSc, 2010, membership in commission)
9. Tomović Goran, (BSc, 2010, membership in commission)
10. Marinković Aleksandra (BSc, 2010, membership in commission)
11. Đorđević Svetlana, (BSc, 2011, membership in commission)
12. Dubaovac Jasmina (BSc, 2012, membership in commission)
13. Ramović Zorana (BSc, 2012, membership in commission)
14. Stamenković Marina (BSc, 2013, membership in commission)
15. Stojanović Tomislav (BSc, 2013, membership in commission)
16. Marković Goran (BSc, 2013, membership in commission)

OTHER RELEVANT ACTIVITIES

M. Kovačević, *Nobelova nagrada za fiziku u 2009. g.*, (predavanje, Institut za fiziku, PMF Kragujevac, Novembar 2009)

ACTIVITIES IN THE REGIONAL CENTER OF EXCELLENCE OF KRAGUJEVAC

SELECTED PUBLICATIONS (in Serbian):

1. Milena Popović, Andrea Spasić, Eksperimentalna provera Lambertovog zakona pomoću fluksmetra (mentor: **M. Kovačević**, Kragujevac, 2008)
2. Stefan Jovanović, Provera Faradejevog zakona elektromagnetne indukcije, (mentor: **M. Kovačević**, Kragujevac, 2009).
3. Andrea Spasić, Milena Popović, Kosi hitac u vazduhu: simulacija kretanja golf loptice, (mentor: **M. Kovačević**, Kragujevac, 2009).
4. Stefan Jovanović, Merenje magnetne permeabilnosti nepoznate supstancije pomoću Gijve metode, (mentor: **M. Kovačević**, Kragujevac, 2010).
5. Nikola Samarđžić, Određivanje ubrzanja zemljine teže, (mentor: **M. Kovačević**, Kragujevac, 2010).

6. Vuk ilić, Zdravko Kosanović, Potraga za Higsovim bozonom, (mentor: **M. Kovačević**, Kragujevac, 2010).
7. Nevena Aksić, Slabljenje svetlosti u plastičnom optičkom vlaknu, (mentor: **M. Kovačević**, Kragujevac, 2010).
8. Andrea Spasić, Milena Popović, Gvozdena ptica, (mentor: **M. Kovačević**, Kragujevac, 2010).
9. Stefan Jovanovic, Merenje horizontalne komponente Zemljinog magnetnog polja, (mentor: **M. Kovačević**, Kragujevac, 2011).
10. Nevena Aksić, Spektar atoma vodonika i određivanje Ridbergove konstante, (mentor: **M. Kovačević**, Kragujevac, 2011).
11. Stefan Jovanovic, Teslin transformator, (mentor: **M. Kovačević**, Kragujevac, 2012).
13. Ljubica Vujović, Uticaj EM polja mobilnog telefona na ritmičku aktivnost srca, (mentor: **M. Kovačević**, Kragujevac, 2012).

LICENSED SEMINAR IN PHYSICS EDUCATION/ Author

1. **Kovacevic M.**, Nikezic D., Jovanovic B., Kreiranje nastave fizike danas, Zavod za unapredjivanje obrazovanja i vaspitanja, 2012/2013, 2013/2014, kat. broj 659.

REALISED SEMINARS IN PHYSICS EDUCATION by Kovacevic M et al.

1. Seminar za nastavnike fizike osnovnih i srednjih škola, (Demonstracioni eksperiment u nastavi fizike, 15. januar 2011. god, Institut za fiziku PMF Kragujevac).
2. Seminar za nastavnike fizike osnovnih i srednjih škola, (Kreiranje nastave fizike danas, 12-13. i 26 novembar 2011 god, Institut za fiziku PMF Kragujevac).
3. Seminar za nastavnike fizike osnovnih i srednjih škola, (Kreiranje nastave fizike danas, 16-18 jun 2012 god, Regionalni centar Novi Pazar).