**Dr. B. Elavarasan**
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## Personal Information:

Name : **Dr. B. ELAVARASAN.**

Designation : Assistant Professor

Department : Mathematics

Date of Joining : 01 – 07 – 2009

## Qualification with Specialization:

| Degree | Major | Specialization | Year of Passing | College/ University |
|--------|-------|----------------|-----------------|---------------------|
| Ph.D | Mathematics | Modern Algebra – Near-ring theory | 2009 | Annamalai University, Chidambaram |
| M.Phil | Mathematics | Modern Algebra (Near-ring theory) | 2005 | Annamalai University, Chidambaram |
| M.Sc. | Mathematics | Mathematics | 2004 | Muthayammal College of Arts & Science, Rasipyrm |

## Teaching Experience:

| Name of Institution & Place | Classes | Duration | | Designation |
|-----------------------------|---------|----------|----|-------------|
| | | From | To | |
| K.S.R. College of Engineering, Trichengode. | UG | 02 – 06 – 2008 | 28 – 06 - 2009 | Lecturer |
| Karunya University, Coimbatore | Both UG and PG | 01 – 07 – 2009 | 20 – 08 - 2009 | Assistant Professor |
| Karunya University, Coimbatore | | 21 – 08 - 2009 | Till Date | Assistant Professor (SG) |

**Courses Taught**

- ➢ Algebra

- ➢ Linear Algebra
- ➢ Applied Mathematics
- ➢ Mathematical Transforms
- ➢ Complex analysis.

**Research Interest:** Near – Rings, Zero-divisor graphs, Semirings, Ternary Semirings, Semigroups, Ordered semigroups, Posets

# Papers in Journals:

1. K. Porselvi and **B. Elavarasan**, Poset properties determined by ideal based zero divisor graphs, Kyungpook Math. J., 54(2)(2014), 197 – 201.

2. P. Dheena and **B. Elavarasan**, On Strong IFP Near – ring, International Journal of Pure and Applied Mathematics, Vol 87(6)(2013), 809 – 815.

3. P. Dheena and **B. Elavarasan**, Weakly Prime Ideals in Near-rings, Tamsui Oxford Journal of Information and Mathematical Sciences, 29(1)( 2013), 55 – 59**.**

4. J. Catherine Grace John and **B. Elavarasan,** Weakly n-Prime Ideals of Posets, International Journal of Pure and Applied Mathematics, Vol 86(6)(2013), 905 – 910.

5. **B. Elavarasan** and K. Porselvi**,** An Ideal-based Zero-divisor Graph of Posets, Commun. Korean Math. Soc. Vol. 28(1)(2013), 79—85.

6. **B. Elavarasan,** An Ideal-based Zero Divisor Graph of Po-Γ-semigroups, International Journal of Pure and Applied Mathematics, Vol 81(2)( 2012), 305 – 311.

7. **B. Elavarasan,** Generalizations of Prime Ideals in Near-rings, Int. J. Open Problems Compt. Math., Vol 4(4), 2011.

8. P. Dheena and **B. Elavarasan**, On Near-Rings with Prime Center, Kochi J. Math., 6(2011), 159 – 165.

9. P. Dheena  and **B. Elavarasan**, On Ideal– Based Zero-divisor Graph of 2–Primal Near – Rings, Bull. Korean Math. Soc., 46(6)(2009), 1051 – 1060.

10. P. Dheena  and **B. Elavarasan**, On Comaximal Graphs of Near-Rings, Kyungpook Math. J. 49(2009), 283 – 288.

11. P. Dheena  and **B. Elavarasan**, A Generalized Ideal-Based Zero-Divisor Graphs of Near–

Rings, Commun. Korean Math. Soc. 24 (2009), No. 2, 161–169.

12. P. Dheena and **B. Elavarasan**, Right Chain Po- Gamma- Semigroups, Bull. Inst. Math. Acad. Sin., Vol.3( 2008), 407– 416.

13. P. Dheena and **B. Elavarasan**, Prime Bi-ideals in Ternary Semirings, J. Indian Math. Soc., Vol 74 No.3 – 4 (2007), 221 – 227.

### *DELIVERD TALK AT CONFERENCES/WORKSHOPS*

1. Delivered a special lecture on "Zero Divisor Graph Structures of Commutative Rings and Near - Rings", which is held at Sri Saradha College of Arts & Sciences for Women, Perambalur, on 21$^{st}$ March 2014.

2. Delivered a talk about "Zero divisor graph properties in posets" in the International Workshop on Fuzzy sets, Rough sets, Uncertainty Analysis and Application, which held at NIT, Durgapur, in between 21$^{st}$ and 25$^{th}$ Nov 2011.

3. Delivered a talk about "Generalized ideal – based zero-divisor graph of near – rings" in the International Satellite Conference, which held at North- Eastern Hill University, Shillong, during Aug 30$^{th}$ – Sep 11$^{th}$ 2010.

### *PARTICIPATION IN NATIONAL CONFERENCES/WORKSHOPS*

1. Participated in the International Conference on Semi groups, Algebras and Operator Theory, which held at Department of Mathematics, Cochin University of Science and Technology, Kochi, Kerala, during February 26 - 28, 2014.

2. Participated in the Instructional Workshop on Semi groups and Applications, which held at Department of Mathematics, Cochin University of Science and Technology, Kochi, Kerala, during February 22 - 24, 2014.

3. Participated in the 99$^{th}$ Indian Science Congress held at KIIT University, Bhubaneswar, India, during Jan 3-7, 2012.

4. Presented a paper entitled "An ideal based zero divisor graph of posets" in IMS 77$^{th}$ Annual Conference, which held at Nanded, between 27$^{th}$ and 30$^{th}$ December 2011.

5. Participated in the Question Bank Preparation Workshop, which held at Karunya University, during June 17 – 18, 2011.

6. Participated in the National conference on Recent Frontiers in Applied Dynamical System,

which held at Karunya University, during January 21 – 22, 2011.

7. Participated in the IEEE sponsored Faculty Development Programme, held at Karunya University, during February 26 – 27, 2010.

8. Participated in the National Seminar on Algebra and its Applications, held at Department of Mathematics, Annamalai University, on September 09, 2009.

9. Participated in one day Workshop on Effective Teaching, held at School of Science & Humanities, Karunya University, on November 25, 2009.

10. Participated in the National Conference on Discrete and Fuzzy Mathematics, held at Karunya University, during December 12 – 13, 2009.

11. Participated and presented a paper in the 94th Indian Science Congress, held atAnnamalai University, Annamalainagar-608 002, from January 03 to 07, 2007.

12. Participated in the Easy Methodology and Effective Teaching of Mathematics, held at Krishnasamy College of Engineering & Technology, Cuddalore, from Aug 12 to 14,  2006.

13. Participated in the National Symposium on Mathematical Methods and Applications (NSMMA 2003), held at Department of Mathematics, IIT Madras, on December 22, 2003.

## Seminars/ FDP Organized:

A national level conference entitled "*National Conference on Mathematical Sciences and Applications; NCMSA 2013*", between March 14 and 15, 2013. Total No. of Participants from all over India is 156. Two special issues of the presented papers in the conference have published in the journal "International Journal of Pure and Applied Mathematics". Vol  86(6); 87(6), 2013.

## Membership Details:

➢ Life Member in Indian Mathematical Society.

➢ Editorial Board member in "International Journals of Science and Innovation Technology"

➢ Editorial Board member in "Global Journal of Mathematical Sciences: Theory and Practical [GJMS]".

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