Dr. K. JAYALAKSHMI.

M.Sc. Ph. D

Professor of Mathematics
Jawaharlal Nehru Technological University Anantapur
Anantapuram – 515 002, Andhra Pradesh, India

Bio-data

Name	:	Dr. K. JAYALAKSHMI
Official address	:	JNTUA College of Engineering JNTUA University Anantapur
Residential address	:	W/o Prof. K.B. Chandra Sekhar No-3/29 Jaya Nagar , LIC Colony, Opp. JNTUA Guest House, Anantapur 515002.
Phone & Email address	:	09949756078 kjay.maths@jntua.ac.in *jayalakshmikaramsi@gmail.com*
Date of Birth	:	05/08/1978
Nationality	:	Indian
Religion	:	Hindu

Educational qualification:

Degree	University	Year of Passing	Division	% of Marks	Specialization
Ph.D.	S.K. University	2010			Algebra (Some studies on the nucleus of nonassociative ring)
M.Sc.	S.K. University	2002	1	71.7	Applied Mathematics
B. Sc.	Dr. B. R. Ambedkar Open university, Hyderabad	2000	1	63%	Mathematics, Physics, Chemistry

Experience

Teaching Experience   :20– Years 5– Months

S. No.	Institution/Organization	Position held	Duration
1.	JNTUA College of Engineering, Anantapur	Professor Department of Mathematics	09/12/2021 - till date
2.	JNTUA College of Engineering, Anantapur	Associate Professor Department of Mathematics	09/12/2018 – 08/12/2021
3.	JNTUA College of Engineering, Anantapur	Assistant Professor (Senior Scale) Department of Mathematics	09/12/2015 – 08/12/2018
4.	JNTUA College of Engineering, Anantapur	Assistant Professor (Senior Scale) Department of Mathematics	09/12/2006 – 08/12/2015

Administrative Experience :

S. No.	Administrative Post held	Duration
1.	Additional Controller of Examinations, JNTUA	10/04/2023 – 08/11/2023
2.	Director, Research and Development, Krishna University Machilipatnam	16/02/2021 – 22/12/2022
3.	Dean faculty of science, Krishna University Machilipatnam	24/01/2021 – 22/12/22
4.	Head, Department of Mathematics, University college of Arts and Science, Krishna University, Machilipatnam	04/12/2021 – 22/12/2022
5.	Officer In-charge, Girl's hostel, JNTUA CEA, Anantapur	25/01/2018 – 01/11/2020
6.	Deputy warden, Amaravati girls' hostel, JNTUA CEA, Anantapur	08/03/2013 – 01/11/2020
7.	Head (I/C), Dept. of Mathematics, JNTUA CEA	21/05/2013 – 21/09/2014

Other Experience:

S. No.	Post held	Duration
1.	College Academic Council member, JNTUA CEA	07/01/2023 – till date
2.	BOS chairperson for PG, Krishna University Machilipatnam	16/02/2021 – 22/12/2022
3.	BOS chairperson for B.Tech., Engineering college, Krishna University Machilipatnam	05/12/2021 – 22/12/2022
4.	BOS member for PG, Krishna University Machilipatnam	03/07/2021 – 16/03/2021
5.	BOS chairperson for UG, JNTUA CEA, Anantapur	25/01/2018 – 01/11/2020
6.	BOS member for UG, JNTUA CEA, Anantapur	

Member of professional bodies:

1. APTSMS: Life Membership No.:887

2. Vijnana Parishad: Life membership No.: LMVPI/300.
3. Indian Mathematical Society: Life membership No.: L/2023/160
4. Ramanujan Mathematical Society: Life membership No.: 1958

Governing Body Member:

1. Sumourya institute of management (MBA) Nandyala check Post, Kurnool.
2. Mahathi college of Pharmacy, Madanpalle Road railway station, CTM X Road, Madanapalle, Chitoor-517319.
3. Rami Reddy Subbarami Reddy Engineering College, Kavali Nellore-524142 from 11/04/2022 to 2-years.

Research

Research Experience   : 18 – Years

No. of papers published (Total)	National	International
74	08	66
No. of papers presented in conferences	National	International
19	05	14
No. of M.Phil Guided	Submitted	Perusing
02	00	00
No. of Ph. D Guided	Submitted	Perusing
12	00	02

Publications:

1. R. Anantha Lakshmi, K. Jayalakshmi, "Certain types of ladder prime graphicable algebra", Bol. Soc. Paran. Mat., Vol 3s, 41, (2023), 1-6.
2. R. Anantha Lakshmi, K. Jayalakshmi, "Cyclic prime graphicable algebra", Communication in Mathematics and Applications, Vol. 13, No. 5, (2022), 1–10.
3. K. Jayalakshmi, K. Hari Babu, "Topological rank of (-1,1) Metabelian Algebra", Bol. Soc. Paran. Mat. Vol 3s 40, (2022), 1-6.
4. T. Anuradha, V. Lakshmi Prasannam, K. Jayalakshmi, "Characterization of hyperideals in ternary semihyperrings", Communication in Mathematics and Applications, Vol. 13, No. 1, (2022), 295–306.
5. C. Sivarami Reddy, V. Ramachandra Prasad, K. Jayalakshmi, "Numerical simulation of natural convection heat transfer from a heated square cylinder in a square cavity filled with micropolar fluid", Heat Transfer, (2021), 1-19, DOI: 10.1002/htj.22123.
6. O. Rama Krishna, K. Jayalakshmi, "Active and passive controls on chemically reacting free Convection of MHD Blasius and Sakiadis dissipated flow with variable

conductivity and radiation", Test Engineering and Management, Vol. 82, (2020), 14430-14439.

7. G. Lakshmi Devi, K. Jayalakshmi, "Derivations with invertible values in flexible algebras", Bol. Soc. Paran. Mat. 3s Vol 38 No. 6 (2020).

8. D. Manjula, K. Jayalakshmi, "Effect of Slip on MHD Mixed Convection Jeffrey Fluid Flow over an Exponentially Stretching Sheet in the Presence of Thermal Radiation and Chemical Reaction", Journal of advance research in dynamical control systems Vol 11, No. 5, 363-373 (2019).

9. D. Manjula, K. Jayalakshmi, "Multiple clip conditions on chemically reacting flow of MHD Jeffery fluid over vertical surface in a suspension of Brownian motion and Thermophoresis", International Journal of Emerging Technologies, Vol. 10, No. 4, (2019), 454-464.

10. O. Rama Krishna, K. Jayalakshmi & K. Channa Kesavulu, Natural Convection of Chemically Reacting MHD Blasius and Sakiadis Flows with Graphene and Copper Nanoparticles: Comparative Study, International Journal of Advanced Science and Technology Vol. 28, No. 12, (2019), 116-141.

11. R. Ananthalakshmi, K. Jayalakshmi, "The Vertex Prime Valuation for Jahangir and Theta Graphs", International Journal of Innovative technology and Exploring Engg.(IJITEE), Vol. 8 Issue 12 Oct-2019, 5019-5021.

12. C. Sivarami Reddy, V. Ramachandra Prasad, K. Jayalakshmi, "Numerical simulation of natural convection of Micropolar fluid in a rectangular porous enclosure"", Int. J. of Innovative technology and Exploring Engg.(IJITEE), Vol. 8 Issue 4S Feb-2019, 329-339.

13. C. Sivarami Reddy, V. Ramachandra Prasad, K. Jayalakshmi, "Natural convection in a square enclosure filled with micropolar fluid: effect of thermal radiation", Int. J. of Innovative technology and Exploring Engg. (IJITEE), Vol. 8 Issue 4S Feb-2019, 162-170.

14. O. Rama Krishna, K. Jayalakshmi, K. Channa Kesavulu, "Variable conductivity, chemical reaction, heat source or sink and thermal radiation dissipative natural convective Blasius and sakiadis flows in a suspension of active passive flow condition", Journal of nanofluids, Vol. 8,(2019), 1-10.

15. G. Lakshmi Devi, K. Jayalakshmi, "Derivations on Vinberg rings", Bol. Soc. Paran. Mat. Bol. Soc. Paran. Mat (2019).

16. K. Jayalakshmi, M. V. L. Bharathi, "Hvala's Theorem for Generalized Left σ-Derivation on C∗ -Algebras", Southeast Asian Bulletin of Mathematics, Vol. 43, Issue 5, 2019, 685-704.

17. M. V. L. Bharathi, K. Jayalakshmi, "δ-super derivation in e-stable algebra", Asian European journal of Mathematics (World Scientific Publishing company) (2019).

18. Anantha Lakshmi. R, Jayalakshmi. K., Madhvi. T, "Prime labeling of Jahingir Graphs", Int. J. of Engg. & Tech. (IJET) Vol. 7(4.10) (2018), 389-392.

19. K. Hari Babu, K. Jayalakshmi, "(-1, 1) rings without nilpotent elements", Int. J. of Engg. & Tech. (IJET) Vol. 7(4.10) (2018), 387-388.

20. D. Manjula, K. Jayalakshmi, "Unsteady MHD Flow of Jeffrey Fluid over a Stretching Sheet Embedded in a Porous Medium with Suction", International Journal of research Vol. 7 (3), (2018), 609-623.

21. S. R. Ravi Chandra Babu, V. Venkateswarlu and K. Jayalakshmi, "MHD chemically reacting and radiating nanofluid over a vertical cone embedded in a porous medium with variable properties Journal of ultra-scientist of physical sciences (JUSPS-A) Vol. 30(2) (2018), 110-120.

22. S. R. Ravi Chandra Babu, V. Venkateswarlu and K. Jayalakshmi, "Unsteady MHD Boundary layer heat and mass transfer flow of micropolar fluid over porous stretching sheet with soret and dufour effect", International Journal of Research in Advent Technology, Vol. 6 (7), (2018), 1399-1407.

23. S. R. Ravi Chandra Babu, V. Venkateswarlu and K. Jayalakshmi, "Effect of Magnetic field and radiation on MHD heat and Mass transfer of Micropolar fluid over streatching sheet with soret and Dufour effects," International Journal of Applied Engineering Research, Vol. 13 (2), (2018), 10991-11000.

24. S. R. Ravi Chandra Babu, V. Venkateswarlu and K. Jayalakshmi, "MHD Chemically reacting and radiating nanofluid flow over a vertical cone embedded in a porous medium with variable properties", Journal of Ultra Scientist of Physical Sciences (International Peer reviewed journal), Vol. 30 (2), (2018), 110-120.

25. M. V. L. Bharathi, K. Jayalakshmi, "Multiplicative δ-derivations in alternative algebras", Asian European journal of Mathematics (World Scientific Publishing company), Vol. 11, No.2, (2018), 8-pages.

26. G. Lakshmi Devi, K. Jayalakshmi, "A reductive case on derivations in Vinberg (-1, 1) rings", Asian European journal of Mathematics (World Scientific Publishing company), Vol. 11, No.1, (2018), 11-pages.

27. C. Sivarami Reddy, V. Rama Chandra Prasad, K. Jayalakshmi, "Fluid flow in a square cavity with moving horizontal walls - a simulation by marker and cell (mac) method", International Journal of Advanced Research in Computer Science, Vol. 8, No. 6, (2017), 119-123.

28. M. V. L. Bharathi, K. Jayalakshmi, "Semi derivations in prime rings", International journal of pure and applied mathematics, Vol. 113 No. 6 (2017) (special issue), 1-8.

29. K. Jayalakshmi, K. Hari Babu, "Alternator ideals in Vinberg (-1, 1) rings", International journal of pure and applied mathematics, Vol. 113 No. 6 (2017) (special issue) 1-8.

30. M. V. L. Bharathi, K. Jayalakshmi, "(1, α)-derivations in Lie ideals in σ-prime near-rings", Mathematical sciences international research Journal, Vol. 6 Issue 1 2017, 22-25.

31. G. Lakshmi Devi, K. Jayalakshmi, "Invertible Leibnitz derivations in flexible algebras", International journal of pure and applied mathematics, Vol. 113 No. 6 (2017) (special issue) 1-8.

32. K. Jayalakshmi, K. Hari Babu, "(-1, 1) Metabelian rings", Bol. Soc. Paran. Mat., 3s Vol. 35 N0.2, (2017) ,115-125.

33. K. Jayalakshmi, "Nilpotent prime (-1, 1) rings", Asian European journal of Mathematics (World Scientific Publishing company), Vol. 9 No. 1 (2016), 1650024 (16 pages).

34. G. Lakshmi Devi, K. Jayalakshmi, "Flexible Lie-Admissible superalgebras of vector type", Asian Journal of algebra, Vol. 1 (2016), 9-pages.

35. K. Jayalakshmi, G. Lakshmi Devi, "On vinberg (-1, 1) rings", Asian European journal of Mathematics (World Scientific Publishing company), Vol. 9 No. 3 (2016), 9-pages.

36. K. Jayalakshmi, M. V. L. Bharathi, "On Commutativity of semiprime rings with (A, B) derivations", Mathematical Science Research International Journal, Vol. 4 Issue 2 (2015), 92-94.

37. S. Aruna, K. Jayalakshmi, "The effect of hall current on an unsteady mhd viscous dissipative fluid flow along a porous flat plate with heat absorption", Global Journal of pure and applied mathematics, Vol. 11 No. 2 (2015), 180-184.

38. S. Aruna, K. Jayalakshmi, "Heat and mass transfer effects on an unsteady mhd convective flow past a vertical porous plate in a porous medium with heat source", International journal of scientific and innovative mathematical Research (IJSIMR), Vol. 3 Special Issue 3, (2015), 819-826.

39. K. Jayalakshmi, G. Nageswari, "A note on finitely generated locally (-1, 1) rings", International journal of scientific and innovative mathematical Research (IJSIMR), Vol. 3 Special Issue 2, (2015), 519-522.

40. K. Jayalakshmi, K. Hari Babu, "(-1, 1) rings without nilpotent elements", International journal of scientific and innovative mathematical Research (IJSIMR), Vol. 3 Special Issue 2, (2015), 392-395.

41. K. Jayalakshmi, "Simple (-1, 1) rings", International journal of scientific and innovative mathematical Research (IJSIMR), Vol. 1 Special Issue 2, (2015), 73-75.

42. K. Jayalakshmi, "(-1, 1) and Generalized Kac-Moody Algebras", Asian Journal of Algebra (Asian Network for scientific information), 8(1): (2015), 6-13.

43. K. Jayalakshmi, G. Nageswari, "Rings with $(x, y, z) - (z, y, x)$ in the right nucleus", Asian European journal of Mathematics (World Scientific Publishing company), Vol 8 No. 2, (2015), 5-pages.

44. K. Jayalakshmi, S. Madhavi Latha, "Right nucleus in generalized right alternative rings", International journal of research-Granthalayah, Vol 3 Issue 1 (2015), 1-12.

45. K. Jayalakshmi, "Alternative nucleus of (-1, 1) ring", Mathematical sciences International research journal, Vol.3 Issue 2 (2014), 513-515.

46. K. Jayalakshmi, S. Madhavi Latha, "Rings with (x, R, x) in the left nucleus", Vol. 11, No.1, (2014), 1-4.

47. K. Jayalakshmi, "Maximal Left Ideals In Local Goldie (-1, 1) Rings", Mathematical J. of Interdisciplinary Sciences, Vol.3 No. 2 (2015), 139-153.

48. K. Jayalakshmi, C. Manjula, "Bol Loops in nilpotent alternative loop rings", International journal of Mathematika and Statistika, Vol. 10, No. 3, (2014), 56-60.

49. K. Jayalakshmi, "A note on (-1, 1) ring satisfying a.c.c", International Journal of Algebra and Statistics, Vol.3 (2), (2014), 34-41.

50. K. Jayalakshmi, "Ideals in simple (-1, 1) rings", International Journal of Algebra and Statistics, Vol.3 (1), (2014), 22-25.

51. K. Jayalakshmi, C. Manjula, "Extra and alternative loop rings", International journal of scientific and research publications, Vol.4(5), (2014), 1-4.

52. K. Jayalakshmi, K. Hari Babu, "On simple (-1, 1) rings", International journal of mathematical archive, Vol.5(4), (2014), 152-155.

53. K. Jayalakshmi, "Nucleus is not equal to the center in (-1, 1) rings", Mathematical sciences International research journal, Vol.3, No.1 (2014), 54-56.

54. K. Jayalakshmi, G. Nageswari, "Left quotient rings of assosymmetric rings", International Journal of Algebra and Statistics, Volume 2: 2(2014), 15–17, Available at: http://www.m-sciences.com.

55. K. Jayalakshmi, K. Hari Babu, "Nucleus equals the center in (-1, 1) ring", Global J. for research Analysis, Vol. 3 No 2, (2014), 149-150.

56. K. Jayalakshmi, G. Nageswari, "On The Ideals Of Jordan Triple Skew Derivation", Asian Journal of Mathematics and Physics, Volume 2013, Article ID amp0059, 3 pages Available at http://scienceasia.asia.

57. K. Jayalakshmi, G. Nageswari, "Experimenting with the identities x(yz) = y(xz) and (xy)z= y(zx) in left alternative ring", International Mathematical Forum, Vol. 8 No. 39, (2013), 1933-1937.

58. K. Jayalakshmi, C. Manjula, "On the center of finitely generated locally (-1, 1) rings", American J. of Mathematics and Sciences,Vol. 3, No. 1, (2014), 131-135.

59. K. Jayalakshmi, C. Manjula, "Left Nucleus in Left Alternative rings", International J. of Applied Mathematics Analysis and Applications, Vol. 8 No. 2, (2013), 157-160.

60. K. Jayalakshmi, C. Manjula, "(a, b, c)$^4 \in$ C in (-1, 1) and (1, 0) rings", International Journal of Mathematical Sciences, Vol. 12, No. 3-4, (2013), 287-291.

61. K. Jayalakshmi, C. Manjula, "Bol Loops In Right Alternative Ring", International Journal of Algebra and Statistics, Vol. 2: 2(2013), 18–20. Available at: http://www.m-sciences.com.

62. K. Jayalakshmi, "On Prime rings satisfying (x, y, z) = (y, x, z)", International Journal of Algebra and Statistics, Vol. 2: 2(2013), 15–17. Available at: http://www.m-sciences.com.

63. K. Jayalakshmi, "On prime derivations with d^{3n+1} contained in the center", Mathematical Sciences International Research Journal, Vol. 2, No.2, (2013), 145-146.

64. K. Jayalakshmi, K. Madhavi Devi, "Nucleus equals center in assosymmetric rings", International Journal of Modern Engineering Research (IJMER), Vol. 3, No. 3, (2013), 1815-816.

65. K. Jayalakshmi, C. Manjula, "On semiprime finitely generated right alternative weakly M-rings", Bulletin of Society for mathematical Services & Standards (BSOMASS), Vol 6, (2013), 9-12. doi:10.18052/www.scipress.com/BSMaSS.6.9.

66. D. Prabhakar, K. Jayalakshmi, "Rings with associators in the right nucleus", American Journal of pure and applied mathematics, Vol. 1, No. 1-2(2012), 13-16.

67. K. Jayalakshmi, K. Madhavi Devi, "Derivations on simple mutation of nonassociative algebras", International J. of Math. Sci. & Engg. Appls. (IJMSEA), Vol. 6, No. V, (2012), 215-221.

68. K. Jayalakshmi, G. Nageswari, "A Result on Assosymmetric Rings Satisfying the Ascending Chain Condition", International Journal of Algebra and Statistics, Vol. 1: No:1 (2012), 120-125. Available at: http://www.m-sciences.com.
69. K. Jayalakshmi, G. Nageswari, "Ideals in simple assosymmetric rings", Proceedings of Heber International conference on Mathematics and Statistics (HICAMS-2012), 60-63.
70. M. Suryanarayana Reddy, G. Sankar Shekar Raju, M.V.Subba Reddy, K. Jayalakshmi, "Peristaltic transport of a Jeffrey fluid through a porous medium in an inclined tube under the effect of a magnetic field", International journal of applied mathematics and physics, Vol. 3, No. 1, (2011), 80-101.
71. M. Suryanarayana Reddy, G. Sankar Shekar Raju, M.V.Subba Reddy, K. Jayalakshmi, "Peristaltic MHD Flow of a Bingham Fluid through a Porous Medium in a Channel ", African Journal of scientific research, Vol. 3, No. 1, (2011), 179-203.
72. K. Suvarna, K. Jayalakshmi, "On left nucleus in prime left alternative rings", Pacific Asian J. Mathematics, Vol.4 No.2(2010), 107-112.
73. K. Suvarna, K. Jayalakshmi, "Idempotents in the nucleus of an assosymmetric rings", International J. Math. Sci & Engg. Appls. (IJMSEA), Vol. 5, No. 1, (2011), 89-93.
74. K. Suvarna, K. Jayalakshmi, "On the nucleus of prime assosymmetric ring", J. Pure & Appl. Physics (JPAP), Vol 22, No.1, (2010), 81-83.

Books

1. K. Jayalakshmi, et.al., "Introduction to queueing theory", Infinite Research Publication, (2023), ISBN No. 978-81-966422-0-4.
2. K. Jayalakshmi, et. Al., "Applied Numerical Methods", Infinite Research Publication, (2023), ISBN No. 978-81-966422-7-3.
3. K. Jayalakshmi, M. V. L. Bharathi, "Derivations – Ring theory", Lambert Academic Publishing, (2022), ISBN No. 978-620-4-95453-0.
4. G. Nageswari, K. Jayalakshmi, "The nucleus of nonassociative rings", Lambert Academic Publishing, (2022), ISBN No. 978-620-6-16313-8.

Book chapters

1. K. Jayalakshmi, "Multiplicative δ-derivations of standard", AIP Conference proceeding, (2020), 2277, 140008-1–140008-4; https://doi.org/10.1063/5.0025286.

2. K. Jayalakshmi, "On (-1,1) weakly Novikov rings", Proceedings of International symposium of Engineering and Natural Sciences, Vol. 1, (Aug 2013), 16-20.

3. K. Jayalakshmi, G. Nageswari, "Ideals in simple assosymmetric rings", Proceedings of Heber International conference on Mathematics and Statistics (HICAMS-2012), 60-63.

4. K.Jayalakshmi, "On commutativity of nonassociative rings", Proceedings of Heber International conference on Mathematics and Statistics (HICAMS-2012), 43-45.

5. K. Suvarna, K. Jayalakshmi, "A result on prime (-1, 1) rings", Proceedings of Advances in Mathematical & Computational Methods, Vol. 1 (Jan 2011), 44-46.

Conferences:

S.No	Name of the authors	Title of the paper	Name of the conference	Year in which the conference held
1	K.Suvarna&	Rings with the	International Conference on	(Dec 9-11, 2010) at

	K. Jayalakshmi	generalized commutators in the nuclie	Recent Developments in Mathematical Sciences and their Applications (ICRDMSA-2010)	CALCUTTA
2	K.Suvarna & K. Jayalakshmi	A result on prime (-1, 1) rings	International Conference on Advances in Mathematical & Computational Methods (AMCM 2011)	Jan 2011 at SPMVV TIRUP-ATI
3	K.Jayalakshmi & G. Nageswari	A note on colourless operators in nonassociative Quantum algebra	National conference on Mathematics and Applications to Engineering and Technology (NCMAET 2011)	Dec-22-23/2011 J.N.T.U.A.C.E. Anantapur
4	K.Jayalakshmi	On commutativity of nonassociative rings	Proceedings of Heber International conference on Mathematics amd Statistics (HICAMS-2012)	5-7-Jan, 2012 Tirchy
5	K.Jayalakshmi & G. Nageswari	Ideals in simple assosymmetric rings	Proceedings of Heber International conference on Mathematics amd Statistics (HICAMS-2012)	5-7-Jan, 2012 Tirchy
6	K.Jayalakshmi & G. Nageswari	Left quotient rings of assosymmetric ring	National conference on on Recent Trends in Mathematics(NCRTM-2013)	21-22-march, 2013
7	K.Jayalakshmi & G. Nageswari	A note on prime finitely generated locally (-1, 1) rings	2_{nd} World Conference on Applied Sciences, Engineering and Technology(WCSET-2013)	8-march, 2013
8	K.Jayalakshmi & C. Manjula	Finitely generated generalized right alternative rings	2_{nd} World Conference on Applied Sciences, Engineering and Technology(WCSET-2013)	8-march, 2013
9	K.Jayalakshmi & C. Manjula	On semiprime finitely generated right alternative weakly M-rings	National conference on Recent Trends in Mathematics(NCRTM-2013)	21-22-march, 2013
10	K. Jayalakshmi	On prime derivations with d^{3n+1} contained in the center	International on Mathematics	09-10 Aug, 2013 Kochi Kerala
11	K. Jayalakshmi	On (-1,1) weakly Novikov	International symposium of Engineering and Natural	29th to 31st Aug-2013.

		rings	Sciences	Macau China
12	K. Jayalakshmi	Alternative nucleus of (-1, 1) ring	International conference on Mathematics (ICM-MKU)	21th to 23rd Aug 2014. Madurai India.
13	K. Jayalakshmi	Simple (-1, 1) rings	International Conference on Mathematical Sciences (ICMS-2015)	June 2015 SVU Tirupathi
14	K. Jayalakshmi	Alternative nucleus of finitely generated (-1, 1) algebras	National conference on emerging trends in mathematical sciences (NCEMTS-2016)	Dec-27 2016 SA Engg College Chennai
15	K. Jayalakshmi	Alternator ideals in Vinberg (-1, 1) rings	National conference on mathematical Techniques and applications (NCMTA-2017)	27-28 Jan (2017) SRM University Chennai
16	K. Jayalakshmi	On derivations of standard algebras	International Conference on Advances in Science, Engineering & Mathematics (ICASEM 2020)	7-9 Aug (2020) (On-Line mode) Annamacharya Institute of Technology and Science
17	K. Jayalakshmi	Certain types of Ladder Prime Graphicable Algebras	6th International Conference on Mathematics and Computing, 2020	23-25 Sept. (2020), Sikkim University, Gangtok.
18.	K. Jayalakshmi	Cyclic Prime Graphicable Algebra	Virtual International Conference on Discrete Mathematics and Combinatorics	22–23 July, 2021 Poornaprajna College & Post Graduate Centre, Udupi
19.	K. Jayalakshmi	Radio labeling of some triangle free graphs	27th International Conference of International Academy of Physical Sciences (CONIPAS XXVII)	26 – 28 Oct, 2021 School of Physical and Applied Science GOA University
20	K. Jayalakshmi	Generalised left σ-derivations in C*-Algebras	International conference on recent trends in Mathematics, Statistics and engineering (ICRMTSE)	22 – 23 Dec, 2023 SVKM's NMIMS (Deemed-to-be University), Indore, Madhya Pradesh

Invited Talks:

1. "Mathematical Modelling on Communication Network with Graph labelling", in FDP, at JNTUA College of Engineering, Anantapur on Feb, 2020.
2. "Mathematical Modelling on Communication Network and Evolution Algebras with Graph labelling", in National Conference on Mathematical Advances in Science and Industrial

Technology, at Acharya Nagarjuna University, PG Centre, Ongole on 26th Mar, 2021 – 27th Mar, 2021.

3. "The role of Higher Education in the National Building", at Sidhartha College of Arts and Science on 15th Sept, 2021.

4. "Mathematical models for better environmental Management" in a 5-days FDP on "Sustainable Innovations in science &Technology" at Sanskrithi school of Engineering, Puttaparthi held from 16 – 20 Oct, 2023.

5. "Derivations-Algebras" in international conference on recent trends in Mathematics, Statistics and engineering (ICRMTSE) at SVKM's NMIMS (Deemed-to-be University), Indore, Madhya Pradesh on 22 – 23 Dec, 2023.

Doctoral Thesis Guided

S.No.	Researcher's Name and Reg. No.	Title of the thesis	Institution	Awarded month and year
1.	K. Madhavi Devi	"Some Studies on the Center of Non associate rings(M.Phil)	Jawaharlal Nehru Technological University Anantapur	Dec-2013
2.	K. Sumitra, 14Mp0901	The minimum mean covering and coloring randic energy of graphs	Jawaharlal Nehru Technological University Anantapur	Aug-2021
1.	C. Manjula	Some studies on the Properties of Nucleus, Center and Loops in Alternative Rings	Jawaharlal Nehru Technological University Anantapur	June-2015
2.	G. Nageswari, 11Ph0916	Some studies on the nucleus of nonassociative rings	Jawaharlal Nehru Technological University Anantapur	Feb-2016
3.	S. Aruna, 11Ph0911	Effect of heat and mass transfer on MHD convective flow	Jawaharlal Nehru Technological University Anantapur	Oct-2017
4.	G. Lakshmi Devi, 13Ph0909	Some studied on the derivation of nonassociative rings	Jawaharlal Nehru Technological University Anantapur	May-2018
5.	M. V. L. Bharathi, 13Ph0904	Some studied on the derivation of associative and nonassociative algebras	Jawaharlal Nehru Technological University Anantapur	Dec-2018
6.	S. R. Ravi Chandra Babu, 14Ph0906	Heat and mass transfer analysis in cone/stretching geometry using finite element formulation	Jawaharlal Nehru Technological University Anantapur	Sep-2019
7.	K. Hari Babu, 13Ph0903	Characterization of (-1,1) nonassociative rings	Jawaharlal Nehru Technological University Anantapur	Dec-2019
8.	D. Manjula, 15Ph0911	MHD heat and mass transfer flow of a nonnewtonian fluid past a porous vertical plate/stretching sheet	Jawaharlal Nehru Technological University Anantapur	April-2021
9.	C. Sivarami Reddy, 13Ph0915	Numerical analysis of natural convective heat transfer in an enclosure filled with micropolar fluid	Jawaharlal Nehru Technological University Anantapur	April-2022
10.	Reddem Ananthalakshmi,	Some studies on prime labelings of cyclic and triangle free graph	Jawaharlal Nehru Technological University	Feb-2023

	16Ph0911		Anantapur	
11.	Tammareddy Anuradha, 1409Mp10100909	Study on certain classes of ternary semihyperrings and hyperideals	Krishna university Machilipatnam	March-2023
12.	O.Ramakrishna, 16Ph0909	Some studies on the Blasius and sakiadis flows in convective heat and mass transfer through nanofluid with dissipation effects	Jawaharlal Nehru Technological University Anantapur	April-2023

Research Projects : Characterization of (-1, 1) nonassociative rings, Sponsored by UGC New Delhi (2013), F. No 17-43 (SR) 2013 dated 12/03/2013 worth Rs. 10,05,216/-. **STATUS:** Completed.

Best Paper award: Received at "2nd International conference on emerging trends in Engineering sciences and management" from 21-22 Dec 2018 held at RGM college of Engg., for the research paper entitled "Vertex prime labeling of Jahangir and theta graphs".

Patentsgrants/publication:

Publication:

1. "Adaptive integration and differentiation techniques through fixed point analysis for real-time system", No. 202341072138, Published on 15/12/2023.
2. A statistical method for Parkinson's disease prognosis using clinical data", No. 202341069381, published on 24/11/ 2023.
3. "Method and system for analyzing turium graphs for network optimization", No. 2302341068064, Published on 20/10/2023.
4. "Hybrid fixed point-theoretic models for robust differentiation and integration in multidimensional spaces", No: 0234106458, Published on 6/10/2023.

ABROAD VISITS:1. Visited MACAU China for paper presentation.

Software's in which mastered: 1. C-Programing
2. LaTeX
3. Matlab
4. Scilab
5. Python programing
6. R programing

Webinar/Workshops and FDP's Organized:

1. National conference on Mathematics and its Applications to Engineering and Technology (NCMAET 2011)
2. National conference on Recent Trends in Mathematics(NCRTM-2013)
3. One day national webinar on "Usage of Mathematical Tools in MATLAB" on 06/08 2021. Resource person: Prof. Ch. V. Ramana Murthy, KL University.

4. One day international webinar on the eve of world science day on "Building climate ready communities: Role of scientific Research and Circular Economy" on 10/11/2021. Resource person: Prof. Seeram Ramakrishna, National University of Singapore.
5. Three-day workshop on "Data analysis using R and MatLab" from 05/05/2022 to 07/05/2022. Resource persons: (i) Dr. Rajyalakshmi(ii) Dr. P. Bindu from KL University.
6. One week FDP on "Intellectual property rights:Emerging issues and challenges" from 20/06/2022 to 24/06/2022. Resource person: Dr. V. Sai Kishore, Baptla College of Pharmacy.
7. One week FDP on "Research Opportunities and Funding agencies" from 27/06/2022 to 02/07/2022. Resource person: Dr. Ch. V. Ramana Murthy, KL University.
8. One week FDP on "Enhancing the academic and intellectual environment in the higher educational institutes" from 11/07/2022 to 16/07/2022. Resource person: Dr. P. Veera Bramhachari, Krishna University, Machilipatnam.

Declaration:

I hereby declare that the information furnished above is true to the best of knowledge.

Dr. K. Jayalakshmi

Date: 13-04-2023
Anantapur