

**Dr.G.SURESH SINGH**  
Email: sureshsingh@yahoo.co.in

**Department of Mathematics**  
**University of Kerala**  
**Kariavattom, Trivandrum -695015**  
**Kerala, India**  
**Phone: 0471 – 2308303 (O)**  
**0471 – 2544454 (R)**  
**94474 71455 (Mob)**

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## **EDUCATION**

- ❖ Ph. D in Mathematics, University of Kerala, 1994.  
Thesis: Graph Theory – A Study of certain Labeling Problems
- ❖ M.Phil in mathematics, Madurai Kamaraj University, 1989.  
Dissertation: Course in Arithmetic
- ❖ M.Sc. in Mathematics, Madurai Kamaraj University, 1988.  
Dissertation: Nil
- ❖ B.Sc. in Mathematics, Madurai Kamaraj University, 1985.

## **PROFESSIONAL EXPERIENCE**

- ❖ Professor and Head since October 2013
- ❖ Head of the department since March 2012.
- ❖ Associate Professor in the Department of Mathematics, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala from October 26, 2008 to present. Teaching Post-graduate and M.Phil students. Guiding both M.Phil and Research (Ph.D) students. Teaching area includes Graph Theory, Operations Research and Theory of Linear Transformations.

- ❖ Reader in the Department of Mathematics, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala from October 26, 2005 to October 25, 2008. Teaching Post-graduate and M.Phil students. Guiding both M.Phil and Research (Ph.D) students. Teaching area includes Graph Theory, Operations Research, Theory of Arithmetic Functions and Theory of Linear Transformations.
  
- ❖ Senior Grade Lecturer in the Department of Mathematics, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala from October 26, 2001 to October 25, 2005. Teaching Post-graduate and M.Phil students. Guiding both M.Phil and Research (Ph.D) students. Teaching area includes Graph Theory, Operations Research and Theory of Arithmetic Functions.
  
- ❖ Lecturer in the Department of Mathematics, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala from October 26, 1996 to October 25, 2001. Teaching Post-graduate and M.Phil students. Guiding both M.Phil and Research (Ph.D) students. Teaching area includes Graph Theory, Measure Theory and Differential Geometry.
  
- ❖ Lecturer in the Department of Mathematics, Mahatma Gandhi University, Kottayam, Kerala from February 6, 1995 to October 23, 1996. Teaching in post-graduate and post-graduate diploma courses. Teaching area includes Graph Theory, Operations Research, Numerical Methods, Real Analysis and Business Mathematics.

## **RESEARCH INTERESTS**

- Graph Theory
- Coding Theory
- Cryptography
- Mathematical Modeling
- History of Mathematics

### A SHORT LIST OF PUBLICATIONS.

- 2018 With Manju V.N., “SOME RESULTS ON DIFFERENTIABLE GRAPHS”, International Journal of Mathematics Archive, Vol.9, No 4, (April), ISSN: 2229-5046
- 2018 With Sreedevi S. L., “Graphs and Codes”, International Journal of Mathematics Trends and Technology(IJMTT), Vol.56, Number 2(April), ISSN: 2231- 5373
- 2017 With Sreedevi S. L., “Cartesian Product and Neighbourhood Polynomial of a Graph”, International Journal of Mathematics Trends and Technology, Vol. 49, Issue 3 (September), ISSN : 2231- 5373
- 2017 With Narges Mohsenitonekaboni “New upper bounds on Strong Roman Domination Number in Graphs’ Bulletin of Kerala Mathematics Association, Vol.14,Issue 2(December),ISSN: 0973-2721 page No:265-272
- 2017 With Narges Mohsenitonekaboni, “Roman and Strong Roman Domination Numbers in Graphs”, International Journal of Innovative Research In Science, Engineering and Technology, Vol. 6, Issue 10 (October), ISSN : 2319- 8753
- 2017 With Narges Mohsenitonekaboni, “Classification Graphs with Large Strong Roman Domination Number”, International Journal of Mathematics Trends and Technology, Vol. 49, Issue 4 (September), ISSN : 2231- 5373
- 2017 With Narges Mohsenitonekaboni, “Some properties on Strong Roman Domination in Graphs”, International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 5, Issue 8 (August), ISSN : 2321- 8169
- 2017 With Narges Mohsenitonekaboni, “Lower and Upper Bounds on Strong Roman Domination Number in Graphs”, Bulletin of Calcutta Mathematical Society, Vol. 109, No. 4, July 2017
- 2017 With Akhil. C. K, “Graphs of Neuro peptides involved in Learning and Memory Processes”, International Journal of Engineering Science and Mathematics, Vol. 6, Issue 7 (November), ISSN: 2320-0294 (IF: 60238)
- 2017 With Akhil. C. K, “Analysing Amino acids in Human Galanin and its Receptors-Graph Theoretical Approach”, Aryabhatta Journal on Mathematics and Informatics, Vol. 9, Issue 2, ISSN: 2394-9309 (IF: 5.856)
- 2017 With Akhil. C. K, “Analysing Amino acids in Galanin”, International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 5, Issue 6, ISSN: 2321- 8169
- 2017 With Hadis Nozarpour, “A Study on 2-Rainbow Edge Domination of Some Classes of Graphs”, Bulletin of Kerala Mathematics Association, Vol. 14, No. 1, June 2017, ISSN: 0973-2721, Page no: 149-158

- 2016 With Hadis Nozarpour, “On 2-rainbow edge domination and related problems on some classes of graphs”, Bulletin of Kerala Mathematics Association, Vol.13, No.2, December, 267, ISSN: 0973-2721
- 2016 With Sunitha Grace Zacharia, “An Introduction to Graph Extension”, IJMMS-13(1), ISSN: 0973-3329
- 2016 With Sunitha Grace Zacharia, “Some results on completely extendable and weighted extendable graphs”, International Journal of Mathematical Archive-7(9) (September), 92-97, IF: 5.09
- 2016 With Hadis Nozarpour, Some Bounds of Rainbow Edge Domination in Graphs, European Academic Research, Vol. III, Issue 10 (January), 2286-4822 (Impact Factor: 3.4546).
- 2015 With Hadis Nozarpour, Some Bounds of Rainbow Edge Domination in Graphs, American Research Thoughts, Vol. 1, Issue 11 (September), 2645-2653 (Impact Factor: 2.0178).
- 2015 With Hadis Nozarpour, Some Results on Domination Parameters in Graphs: A Special Reference to 2-Rainbow Edge Domination, European Academic Research, Vol. III, Issue 6 (September), 6652-6661 (Impact Factor: 3.4546).
- 2012 With Sunny Joseph Kalayathankal, Sabu Joseph and Jobin Thomas, A Fuzzy Network Flood Alarm Model, Journal of fuzzy mathematics, 20(3), 693-705.
- 2012 With Sunny Joseph Kalayathankal and Sabu Joseph, Intuitionistic Fuzzy Soft Flood Index Model, Journal of fuzzy mathematics, 20(3), 683-692.
- 2012 With Sunny Joseph Kalayathankal and Sabu Joseph, Ordered Ideal Intuitionistic Fuzzy Flood Index Model, Journal of fuzzy mathematics, 20(3), 731-742.
- 2012 With Sunny Joseph Kalayathankal, Similarity Measures of Ordered Ideal Intuitionistic Fuzzy Sets, Journal of fuzzy mathematics, 20(3), 743-750.
- 2012 With Sriprabha. K.S, A note on normed graphs and its properties, Bulletin of Kerala Mathematics Association, Vol. 9 (December) No. 2, 319-336.
- 2012 With M.R. Harikrishnan, On Neighbourhood Graphs, International Journals of Mathematical Sciences and Engineering Applications, Vol.6, No.V1, 39-50.
- 2012 With Sunny Joseph Kalayathankal et.al, Ordered Ideal Intuitionistic Fuzzy Model of Flood alarm, Iranian Journal of Fuzzy systems, Vol.9, No.3, 47-60.
- 2011 With Ambili B, Graceful Labeling of Arbitrary Strong Supersubdivision of Graphs,

Graph Theory Notes of New York LXI, (2011), 31-36.

- 2011 With Sunny Joseph Kalayathankal , P.B.Vinodkumar, John T Abraham and Sabu Joseph, Fuzzy Similarity measures of ordered intuitionistic fuzzy sets, International Journal of Fuzzy Mathematics and Systems V(1), 2011, 155-159.
- 2011 With Sunny Joseph Kalayathankal , and P.B.Vinodkumar, Ordered Intuitionistic Fuzzy Flood Index Model, Journal of fuzzy mathematics 19(1) 211-221.
- 2011 With Sunny Joseph Kalayathankal, Ordered Intuitionistic Fuzzy Soft sets, Journal of fuzzy mathematics, 19(1), 2011
- 2011 With Sunny Joseph Kalayathankal, “Ordered intuitionistic fuzzy soft model of flood alarm”, Iranian Journal of Fuzzy Systems. Vol. 8, No. 1, (2011) pp. 29-39.
- 2010 With Manilal. K, Some generalities on Power Graphs and Strong Power graphs, Int.journal of Contemp. Math. Sciences, Vol. 5, 2010, no. 53-56.
- 2010 With Sunny Joseph Kalayathankal and P.B.Vinodkumar, Ordered Intuitionistic Fuzzy Soft sets, Journal of fuzzy mathematics 18(4) 991-998.
- 2010 With Sunny Joseph Kalayathankal, “A fuzzy soft model of flood alarm”, Mathematics and Computers in Simulation by Elsevier Science, 80, pp.887- 893.
- 2009 With Sunny Joseph Kalayathankal, “MADM models using ordered ideal intuitionistic fuzzy sets”, Advances in fuzzy Mathematics, 4(2), pp.101-106.
- 2009 With Sunny Joseph Kalayathankal, “OIIF Model of Flood Alarm”, Global Journal of Mathematical Sciences: Theory and Practical, 1, pp.1-8.
- 2009 With Sunny Joseph Kalayathankal, “IFS model of Flood Alarm”, Global Journal of Pure and Applied Mathematics, 5, pp.15-22.
- 2009 With K.Karunakaran and J.Blessed Singh, “Semigroup of graphs over a Boolean Algebra”, Quassim university scientific publication, Journal of Natural Sciences and Mathematics, 3(2).
- 2008 With K.Karunakaran, “Vertex Measurable Graphs”, Graph Theory Notes of New York, LV, 33-40.
- 2007 With K.Karunakaran, “On outer edge measurable and edge probability measure-independent spanning subgraphs”, Graph Theory notes of New York, LII, pp.45-50.

- 2006 With G.Santhosh, "On integral Sum Graphs", Graph Theory notes of New York, L, pp.21-25.
- 2006 With G.Santhosh, "A note on the super edge-magic deficiency of graph", Far East Journal of Applied Mathematics, 24 (2), pp.233-242.
- 2005 With K.Karunakaran, "Edge Measurable Graphs", Graph Theory Notes of New York, Vol.XLIX.
- 2005 With G.Santhosh, "On super magic strength of graphs", Far East Journal of Applied Mathematics, Vol.18, No.2, pp. 199-207.
- 2003 With G.Santhosh, "A Note on Integral Sum Crowns", Ars Combinatoria, Vol. 66.
- 2000 "Some Generalities on Arithmetic Graph", Graph Theory Notes of New York, XXXVIII, pp.12-16.
- 1998 "A Note on Labeling of Graphs", Graphs and Combinatorics, Volume 14, pp.201-207.
- 1993 "A Note on Sequential Crowns", National Academic Science Letters, Volume 16, No.9 and 10, pp.243-245.
- 1992 "Subdivision of Ladders are Arithmetic", Multidisciplinary research Review, Volume 2 (a & b), pp.23-25.
- 1992 "A Note on Graceful Prisms", National Academic Science Letters, Volume 15, No.6, pp.193-194.

## **PROCEEDINGS**

- 2018 G.Suresh Singh, Neighbourhood Polynomial Derived through Binary Operations on Graphs, Proceedings of the National Conference on Discrete & Computational Mathematics, University of kerala, Jan 11-13, pp 130-141
- 2018 G.Suresh Singh, Some results on Differentiable Graphs, Proceedings of the National Conference on Discrete & Computational Mathematics, University of kerala, Jan 11-13, pp 160-173
- 2015 G.Suresh Singh, Relationships between Graph Theory and other fields, Proceedings of the National Seminar on Algebra and Discrete Mathematics, St.Gregorios College, Kottarakara, Oct 8-9, pp 31-38

- 2014 With Pradeep G. Siddeshwar and M. S. Jagadeesh Kumar, Modeling The Convective Diffusion of a Reactive Solute In Porous Media, Proceedings of 58th conference of ISTAM, Dec- 2014, 58-istam-fm-fp-65.
- 2012 With M. S. Jagadeesh Kumar and Pradeep G. Siddeshwar, Dispersion in a Non-Linear Non-Darcy Flow Proceedings of International conference on Mathematical Modeling and Applied Soft Computing (MMASC-2012), Shanga verlag, vol.1 July 2012,pp 1107.
- 2012 With M. S. Jagadeesh Kumar and P. G. Siddeshwar, Dispersion in a Non-Linear Non-Darcy Flow of a variable viscosity liquid, Mapana Journal of Sciences, 11, 3(2012), , pp113.
- 2010 With M S Jagadeesh Kumar and Pradeep G Siddeshwar, Differential transform method of solution for non-linear boundary value problem: an illustration. Proceedings of ICNPAA 2010, Cambridge University Press 451 -460.
- 2009 With Sunny Joseph Kalayathankal, Multiple attribute decision making using ordered Intuitionistic Fuzzy sets, in : Proceedings of the National seminar on Discrete Mathematics and Applicatiopns held at Department of Mathematics, Marthoma college Thiruvalla, 2009, pp. 56-61.
- 2009 With Sunny Joseph Kalayathankal, Ordered ideal Intuitionistic Fuzzy model for flood prediction, in : Proceedings of the National conference on Discrete and fuzzy Mathematics held at Department of Mathematics, Karunya university, Coimbatore, Dec 9-10 (2009)
- 2008 With Anooja and K.Karunakaran, “Enciphering Semigroups”, Mathematical and Computational Models, pp.498-506.
- 2007 With Sunny Joseph Kalayathankal, “An overview of stochastic modeling of rainfall with emphasis to spatial- temporal point process”, Proceedings of the National seminar on Mathematical Modeling and Simulation organized by Department of Mathematics, K.E.College, Mannanam, Kottayam, pp.15-17.
- 2007 With Sunny Joseph Kalayathankal, “Need and Significance of Fuzzy Modeling of rainfall”, Proceedings of the National seminar on Mathematical Modeling and Simulation organized by Department of Mathematics, K.E.College, Mannanam, Kottayam, pp.77-89.
- 2003 With G.Santhosh, “A Note on Divisor Graph”, Proceedings of the National Seminar on Graph Theory and Fuzzy Mathematics, Pathnamthitta, Kerala, India, pp.49-55.

- 2002 With J.Devaraj, “On Triangular Graceful Graphs”, Proceedings of the National Seminar on Algebra and Discrete Mathematics, University of Kerala, pp.107.
- 2002 With G.Santhosh, “New Classes of Integral Sum Graphs”, Proceedings of the National Conference on Mathematical Modelling, Kottayam, Kerala, India, pp.99-107.
- 2001 With G.Santhosh, “On Divisor Graphs”, Proceedings of the conference on Graph Theory and its Applications, Anna University, Chennai, Tamil Nadu, India, pp.103.
- 1991 With M.I.Jinnah, “A Note on Arithmetic Numberings of Graphs”, Proceedings of the Symposium on Graph Theory and Combinatorics, Kochi, Kerala, India, pp.83-87.

### **BOOKS**

- 2018 Graph Labellings ( under process)
- 2010 Graph Theory –published by Prentice-Hall of India.

### **BOOKS EDITED**

- 2018 Proceedings of the National Conference on Discrete & Computational Mathematics(NCDCM-2018), Department of Mathematics, University of Kerala.
- 2015 Mathematical Sciences International Research Journal, Vol. 4, Issue 2, ISSN 2278-8697.
- 2015 Proceedings of International Conference on Mathematics (In collaboration with IMRF), ICM-2015, Department of Mathematics, University of Kerala.
- 2015 Proceedings of the National Level Workshop on Multivariate Analysis (NLWMA-2015), Center for Quantitative analysis, Department of Mathematics, University of Kerala.
- 2014 Proceedings of the National Conference on Emerging Trends in Graph Connections (NCETGC-2014), Department of Mathematics, University of Kerala.
- 2014 Lecture Notes Series No.3 (Under UGC SAP), Department of Mathematics, University of Kerala.

### **RESEARCH CAREER**

- 1989 Research work leading to Ph.D started.
- 1994 Awarded Ph.D for the thesis entitled “Graph Theory – A Study of certain Labeling Problems”.



- 2001 Produced the Ph.D dissertation title on “Some Graph Theoretic Operations Associated with Graph Labelings”.
- 2002 Produced the Ph.D dissertation title on “A Study on Different Classes of Graphs and their Labelings”.
- 2003 Produced the Ph.D dissertation title on “A Study on Integral Sum Graphs and Various Graph Theoretic Parameters”.
- 2006 Produced the Ph.D dissertation title on “History of Mathematics: An Algebraic Study of Polynomial Equation with Special Reference in Linear and Quadratic Equations.”
- 2007 Produced the Ph.D dissertation title on “Topics in graph theory- Topological approach”.
- 2008 Produced the Ph.D dissertation title on “An algebraic study of polynomial equation with special sequence in linear and quadratic equations”.
- 2008 Produced the Ph.D dissertation title on “A study on the structure and chemical behavior of organic graphs”.
- 2009 Produced the Ph.D dissertation title on “Selected topics in Algebraic graph theory”.
- 2010 Produced the Ph.D dissertation title on “Mathematical Modeling of Change in Space of Surface Water in a Tropical River System – Rain to Repository”.
- 2012 Produced the Ph.D dissertation title on “Selected Topics on Algebraic Connections in Graphs”.
- 2013 Produced the Ph.D, dissertation title on, “Mathematical Modelling of Dispersion of pollutants in porous Media”.
- 2013 Produced the Ph.D, dissertation title on “On Certain Labeling Problems of Graphs”.
- 2014 Produced the Ph.D, dissertation title on “Selected topics in Graph Connections”.
- 2014 Produced the Ph.D, dissertation title on “Topics in Coding and Cryptography”.
- 2015 Produced the Ph.D, dissertation title on “Normed linear spaces associated with graphs”.
- 2017 Produced the Ph.D, dissertation title on “A Study on Some Domination Parameters in Graphs ”
- 2018 Produced the Ph.D, dissertation title on “Selected Problems in Algebraic Graph Theory”

- 2018 Produced the Ph.D, dissertation title on “ A Study on network Modelling of Brain Connectivity with Special reference through graph theoretical Modelling”
- 2019 Produced the Ph.D, dissertation title on “A Study on Some Graph Theoretical Parameters”

**M.Phil. DISSERTATION SUPERVISED**

- 1997 Three M.Phil. Dissertations.
- 1998 Three M.Phil. Dissertations.
- 1999 Three M.Phil. Dissertations.
- 2000 Three M.Phil. Dissertations.
- 2001 Two M.Phil. Dissertations.
- 2002 Two M.Phil. Dissertations.
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- 2012 Two M.Phil. Dissertations.
- 2014 Three M.Phil. Dissertations.
- 2015 Four M.Phil. Dissertations.
- 2016 Four M.Phil. Dissertations.
- 2017 Three M.Phil. Dissertations.
- 2018 Three M.Phil. Dissertations.

## **GRADUATE DISSERTATION SUPERVISED**

1997 Four M.Sc. Dissertations  
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1999 Four M.Sc. Dissertations.  
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2001 Four M.Sc. Dissertations.  
2002 Four M.Sc. Dissertations.  
2003 Five M.Sc. Dissertations.  
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2010 Five M.Sc. Dissertations.  
2011 Four M.Sc. Dissertations.  
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2014 Four M.Sc. Dissertations.  
2015 Four M.Sc. Dissertations.  
2016 Four M.Sc. Dissertations.  
2017 One M.Sc. Dissertations.  
2018 One M.Sc. Dissertations

## **GRADUATE THESIS AND DISSERTATION COMMITTEE MEMBERSHIPS**

- 2019 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member
- 2018 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member
- 2017 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2016 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
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- 2015 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
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- 2014 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
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- 2013 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
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- 2012 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2011 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.

- 2010 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2009 Member – Board of Examinations (PG), Calicut University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2008 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2007 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2006 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2005 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2004 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2003 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2002 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2001 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 2000 Member – Board of Examinations (PG), Calicut University, Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.

- 1999 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 1998 Member – Board of Examinations (PG), Kannur University, Mahatma Gandhi University, University of Kerala (Credit and Semester System).  
M.Phil Dissertation valuation committee and viva board member.
- 1997 Member – Board of Examinations (PG), University of Kerala (Credit and Semester System). M.Phil Dissertation valuation committee and viva board member.

### **BOARD OF STUDIES**

- 2019 Member, P. G. Board of studies, Manonmanium Sumdaranar University, Thirunalveli
- 2019 Member, P. G. Board of studies, M K University, Madurai.
- 2019 Member, P. G. Board of studies, Cochin University of Science and Technology.
- 2019 Member, P. G. Board of studies, University of Kerala.
- 2019 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2019 Member, P. G. Board of studies, Mar Ivanios College, Thiruvananthapuram
- 2018 Member, P. G. Board of studies, M K University, Madurai.
- 2018 Member, P. G. Board of studies, Cochin University of Science and Technology.
- 2018 Member, P. G. Board of studies, University of Kerala.
- 2018 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2018 Member, P. G. Board of studies, Mar Ivanios College, Thiruvananthapuram
- 2017 Member, P. G. Board of studies, M K University, Madurai.
- 2017 Member, P. G. Board of studies, Cochin University of Science and Technology.
- 2017 Member, P. G. Board of studies, University of Kerala.
- 2017 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2017 Member, P. G. Board of studies, Mar Ivanios College, Thiruvananthapuram.
- 2016 Member, P. G. Board of studies, M K University, Madurai.
- 2016 Member, P. G. Board of studies, Cochin University of Science and Technology.

- 2016 Member, P. G. Board of studies, University of Kerala.
- 2016 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2016 Member, P. G. Board of studies, Mar Ivanios College, Thiruvananthapuram.
- 2015 Member, P. G. Board of studies, Mar Ivanios College, Thiruvananthapuram.
- 2015 Member, P. G. Board of studies, Cochin University of Science and Technology.
- 2015 Member, P. G. Board of studies, University of Kerala.
- 2015 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2014 Member, P. G. Board of studies, Mar Ivanios College, Thiruvananthapuram.
- 2014 Member, P. G. Board of studies, Cochin University of Science and Technology.
- 2014 Member, P. G. Board of studies, University of Kerala.
- 2014 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2013 Member, P. G. Board of studies, Cochin University of Science and Technology.
- 2013 Member, P. G. Board of studies, University of Kerala.
- 2013 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2012 Member, P. G. Board of studies, University of Kerala.
- 2012 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2011 Member, P. G. Board of studies, University of Kerala.
- 2011 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2010 Member, M. Phil., P. G., U. G. , Scott Christian College (Autonomous).
- 2007 Member, P. G. Board of studies, Kannur University.
- 2006 Member, P. G. Board of studies, Kannur University.
- 2005 Member, P. G. Board of studies, Kannur University.

#### **INTERNATIONAL MEETINGS ATTENDED**

- 2019 International Conference on Recent Advances in Pure and Applied Mathematics, Arul Anandar College(Autonomous), Karumathur, Madurai, 14<sup>th</sup> February

- 2018 International Conference on Recent Trends in Humanities & Science, Universiti Tunku Abdul Rahman, Malaysia, 25-27 October
- 2018 International Conference on Challenges and Opportunities in Multidisciplinary Research, National University of Singapore 27-28 October.
- 2018 International Conference on Science Engineering Technology and Social Sciences, K.E.College, Mannanam.
- 2017 International Conference on Discrete and Computational Mathematics, The Gandhigram Rural Institute-Deemed University, Dindigul, 16<sup>th</sup>-18<sup>th</sup> February
- 2016 International Conference on Agriculture, Science, Technology, Management and Social Science, Carmel college of Arts, Science & Commerce for Women, Goa
- 2015 International Conference on Mathematics (In collaboration with IMRF), ICM-2015, Department of Mathematics, University of Kerala.
- 2015 International Multidisciplinary Academic Conference, Thailand, November 2015
- 2013 Indo Slovenian Conference on Graph Theory and Applications, organized by University of Slovenia together with University of Kerala, February 22-24.
- 2010 International Conference on groupoids, Semigroups and Automata held at Department of Mathematics, University of Kerala, Kariavattom, August 10-12
- 2010 International Conference on recent trends in Graph theory and Combinatorics, organized by Department of mathematics, Cochin University of Science and Technology, Cochin, August 12-14
- 2008 International seminar on Democratic and Secular Education organized by the Govt. of Kerala at the Kerala University Campus, Kariavattom from 4-6 December.
- 2006 International Symposium on Semigroups and Applications from 9-11 August, organized by Department of Mathematics, University of Kerala.
- 2004 International Conference on Teaching of Calculus, University of Kerala.
- 1995 International Symposium on Regular Semigroups and applications, University of Kerala.

#### **NATIONAL MEETINGS ATTENDED**

- 2019 National Conference on recent trends in Pure and Applied Mathematics, Government Arts College for Women, Sivagangai, Karaikudi, 13<sup>th</sup> February



- 2019 National Conference on recent trends in Mathematics, St.Jerome's College, Anandhanadarkudy, Kanyakumari District., 7<sup>th</sup> February
- 2018 National Seminar on Discrete Mathematics, 14<sup>th</sup> November, Government College for Women, Thiruvananthapuram
- 2018 National Conference on Mathematical and Computational Sciences(NCMCS'18), 23-24 October, Ramanujan Centre for Higher Mathematics, Alagappa University
- 2018 National Conference on Advances in Graph Theory and Combinatorics, St.Stephens College, Pathanapuram, 27<sup>th</sup> September
- 2018 National Seminar on Graph theory and its applications, Kailash Women's College, Salem, 22<sup>nd</sup> June
- 2018 National Seminar on Modern trends in Mathematics, College of Arts and Science, Neyoor
- 2018 National Seminar on Recent Trends in Mathematics and its Applications, Kamraj College, Tuticorin.
- 2018 National Conference on Algebra & Analysis, Department of Mathematics, Mar Ivanios College, 17<sup>th</sup> January.
- 2018 National Conference on Discrete & Computational Mathematics(NCDCM-2018), Department of Mathematics, University of Kerala
- 2015 National Level Workshop on Multivariate Analysis (NLWMA-2015), Center for Quantitative analysis, Department of Mathematics, University of Kerala.
- 2014 National Conference on Emerging Trends in Graph Connections (NCETGC-2014), Department of Mathematics, University of Kerala.
- 2013 Strengthening of education and research in basic sciences in Kerala, Kerala State Council for Science, Technology and Environment, 23<sup>rd</sup> August.
- 2013 National Seminar on Analysis and Discrete Mathematics, Department of Mathematics, University of Kerala, 29<sup>th</sup> April.
- 2013 Task force-safety of women in campuses, Kerala State Higher Education Council, Thiruvananthapuram, 22<sup>nd</sup> April.
- 2013 National Seminar on Algebra, Department of Mathematics, University of Kerala, March 26 (Chairman).
- 2012 National Seminar on Number Theory and Ramanujan's Contributions, Department of Mathematics, University of Kerala, December 13-14. (Convener).

- 2012 National Seminar on Algebra, Analysis and Discrete Mathematics, Department of Mathematics, University of Kerala.
- 2012 National conference on Graph Theory, Algebra and Analysis, Sadakathuullah Appa College, Thirunelveli.
- 2012 National conference on Frontiers of Pure and Applied Mathematics, The Madurai. Diraviyam Thayumanavar Hindu College, Thirunelveli.
- 2011 National Seminar on recent trends in mathematics, A.P.C. Mahalekshmi College, Thoothukudi.
- 2011 National Seminar on Fuzzy logic and its applications, K. E. College, Mannanam, Kottayam.
- 2011 National seminar on Mathematics and Chemistry, St. Joseph College, Moolamattom.
- 2011 National Conference on Recent Trends in Graph Theory and Applications held at St. Xavier's College (Autonomous), Palayamkottai from February 24 to 25.
- 2009 National Seminar on Mathematical Models and Methods in Applied Sciences organized by Post graduate department of Mathematics, K. E. College Mannanam, Kottayam. November 23-25.
- 2009 National Conference on Discrete and Fuzzy Mathematics held at Department of Mathematics, Karunya University, Coimbatore on 9<sup>th</sup> and 10<sup>th</sup> December.
- 2007 National seminar on Algebra and Discrete Mathematics, organized by Department of Mathematics, University of Kerala, November 14-16. (Worked as Treasurer).
- 2007 Workshop on Quality Improvement in Research organized by University of Kerala 28-29 September.
- 2005 National Seminar on Algebra, Analysis and Discrete Mathematics organized by Department of Mathematics, University of Kerala, 12-14 January. (Worked as Treasurer).
- 2004 'Spectrum 2004', Department of Mathematics, SN College, Chempazhanthy, Kerala.
- 2002 National Seminar on Algebra and Discrete Mathematics, University of Kerala.
- 1999 One day seminar on History of Mathematics, Kerala Mathematical Association, Govt. College for Women, Thiruvananthapuram.

- 1994 IX-Annual Conference of the Ramanujan Mathematical Society, University of Kerala.
- 1994 Second Annual Conference on ISIAM, Anna University, Madras.
- 1993 Instructional Work Shop on Discrete Mathematics, University of Bombay.
- 1993 National Seminar on Graph Theory and its Applications, Annamalai University. (Presented a paper on “Some classes of arithmetic trees”).
- 1991 One day symposium on Advances in Mathematics, IIT Madras. (Presented a paper on “Caterpillars and other arithmetic graphs”).
- 1991 National Seminar on Algebra and Analysis, Department of Mathematics, University of Kerala.
- 1991 National Symposium on Graph Theory and Combinatorics, Cochin University.
- 1989 All India Winter School in Discrete Mathematics, University of Pune.

#### **INVITED TALKS**

- 2019 International Conference on Recent Advances in Pure and Applied Mathematics, Arul Anandar College(Autonomous), Karumathur, Madurai, 14<sup>th</sup> February
- 2019 National Conference on recent trends in Pure and Applied Mathematics, Government Arts College for Women, Sivagangai, Karaikudi, 13<sup>th</sup> February
- 2019 National Conference on recent trends in Mathematics, St.Jerome’s College, Anandhanadarkudy, Kanyakumari District., 7<sup>th</sup> February
- 2018 National Seminar on Discrete Mathematics, 14<sup>th</sup> November, Government College for Women, Thiruvananthapuram
- 2018 International Conference on Recent Trends in Humanities & Science, Universiti Tunku Abdul Rahman, Malaysia, 25-27 October
- 2018 International Conference on Challenges and Opportunities in Multidisciplinary Research, National University of Singapore 27-28 October.
- 2018 National Conference on Mathematical and Computational Sciences(NCMCS’18), 23-24 October, Ramanujan Centre for Higher Mathematics, Alagappa University
- 2018 National Conference on Advances in Graph Theory and Combinatorics, K.E.College Pathanapuram, 27<sup>th</sup> September

- 2018 National Seminar on Graph theory and its applications, Kailash Women's College, Salem, 22<sup>nd</sup> June
- 2018 National Seminar on Modern trends in Mathematics, College of Arts and Science, Neyoor
- 2018 National Seminar on Recent Trends in Mathematics and its Applications, Kamraj College, Tuticorin.
- 2018 National Conference on Algebra & Analysis, Department of Mathematics, Mar Ivanios College, 17<sup>th</sup> January.
- 2018 National Conference on Discrete & Computational Mathematics(NCDCM-2018), Department of Mathematics, University of Kerala
- 2018 International Conference on Science Engineering Technology and Social Sciences, K.E.College, Mannanam.
- 2017 National Seminar Graph Theory and its Applications, Sadakathullah Appa College (Autonomous), Thirunelveli, 14<sup>th</sup> September 2017.
- 2017 National Level Seminar on present scenario in Graph theory, G.Venkataswamy Naidu College for Women, Kovilpatti, 17<sup>th</sup> March
- 2017 National Seminar on recent trends in Graph Theory and Analysis, Sri Paramakalyani College, Alwarkurichi, 16<sup>th</sup> March
- 2017 International Conference on Science, Engineering, Technology and Management, KE College, Mannanam, 8<sup>th</sup> - 9<sup>th</sup> March
- 2017 National Seminar on Graph theory and its applications, All Saints' College, Thiruvananthapuram, 1<sup>st</sup> - 3<sup>rd</sup> March
- 2017 National Seminar on recent trends in Mathematics, Sri Sarada College for Women, 1<sup>st</sup> March
- 2017 National Seminar on Mathematics and its application scenario in 21<sup>st</sup> century, A.P.C Mahalaxmi College for Women, 20<sup>th</sup> February
- 2017 National Seminar on Recent Trends in Topology and Graphs, Sarah Tucker College (Autonomous), 27<sup>th</sup> February
- 2017 International Conference on Discrete and Computational Mathematics, The Gandhigram Rural Institute-Deemed University, Dindigul, 16<sup>th</sup>-18<sup>th</sup> February
- 2017 National Seminar on Neoteric Tenor in Graph Theory, Dr.Umayal Ramanathan College for Women, Karaikkudi, 15<sup>th</sup> February

- 2017 National Seminar on emerging trends in pure and applied Mathematics, St.John's College, Palayamkottai, 6<sup>th</sup> January.
- 2017 National Seminar on Recent advancements in pure and applied Mathematics, Sermathai Vasan College for Women, Madurai, 5<sup>th</sup> January.
- 2017 Regional level seminar on recent trends in Graph Theory, The Standard Fireworks Rajaratnam College for Women, Sivakasi, 5<sup>th</sup> January.
- 2016 International Conference on Agriculture, Science, Technology, Management and Social Science, Carmel College for women, Goa, 10-12 November.
- 2016 One week short time course on role of Mathematical sciences in engineering and technology, Motilal Nehru national institute of technology Allahabad, October 19-23.
- 2016 National Seminar on Operations Research and Graph Theory, Sri Sakthikailashh women's college, Selam, 29<sup>th</sup> July.
- 2016 National Seminar on Recent Trends in Applied Mathematics, Haji Karutha Rowthar Howdia College, Uthamapalayam, 28<sup>th</sup> June.
- 2016 National Seminar on Pure and Applied Mathematics, Alagappa University, Karaikudi, 30-31 March.
- 2016 National Level Seminar on Domination in Triple connected graphs, Muslim Arts College, Thiruvithamcode, 15<sup>th</sup> March.
- 2016 National Seminar on Analysis and Discrete Mathematics, Holy Cross College, Nagercoil, 15<sup>th</sup> March.
- 2016 International Conference on Mathematics, Physics and Applied Sciences, Carmel College for women, Goa, 2-5 March.
- 2016 Mathematics- A Realistic Approach, Sri Parasakthi college for womwn, Courtallam, 26<sup>th</sup> February.
- 2016 National Seminar on Analysis and its Applications, D. B College, Sasthamkotta, 18<sup>th</sup> February.
- 2015 International Multidisciplinary Academic Conference, Thailand, November 2015
- 2015 International Conference on Mathematics, 26-28 November.

- 2015 National Seminar on Algebra and Discrete Mathematics, St. Gregorios College, Kottarakkara, 8<sup>th</sup> and 9<sup>th</sup> October.
- 2015 National Workshop on Research Practices in Mathematics and Computer Science, Jayaraj Annapakyam College for Women, Periyakulam, Theni, 3<sup>rd</sup> and 4<sup>th</sup> August.
- 2015 State of the art methodology to enhance teaching, learning and evaluation process, Sri Sarada college for women, Tirunelveli.
- 2015 National seminar on recent trends in analysis, topology and its applications, Sanathana Dharma College, Alapuzha, 18-20 March.
- 2015 National seminar on recent advances in mathematical Analysis, algebra and discrete Mathematics, Mahathma Gandhi college, Thiruvananthapuram, 19-20 March.
- 2015 Modern Trends in algebraic Graph theory, Sree Ayyappa College, March 30-31.
- 2015 National seminar on Alalysis, University of Kerala, 28-29 may.
- 2015 National Seminar on Recent Advances in Mathematical analysis, algebra and Discrete Mathematics, MG College, Thiruvananthapuram, 19<sup>th</sup> March.
- 2015 National Seminar on Recent Trends in analysis, Topology and its applications, SD College, Alappuzha, 18<sup>th</sup> March.
- 2015 National Seminar on Advances in Pure and Discrete Mathematical Structures, Sri. S. Ramaswamy Naidu Memorial College, Sattur, 26-27<sup>th</sup> February.
- 2014 National Seminar on Recent Trends in Analysis and Graph Theory, St. Judes College, Thoothoor, 22<sup>nd</sup> – 23<sup>rd</sup> December.
- 2014 National Seminar on Development of Decision making in fuzzy environment, St. Stephens College, Uzhavoor, 5<sup>th</sup> December.
- 2014 National Seminar on Graph Theory, KNM Govt. College, Kanjiramkulam, 4<sup>th</sup> December.
- 2014 International Conference on Professor S. Arumugham's 10<sup>th</sup> endowment lectures, MS University, Thirunalveli, 2<sup>nd</sup> December.
- 2014 National Seminar on Recent Advances in Computer and Mathematical Sciences, Dr. Umayal Ramanathan College for women, Karakkudi, 7<sup>th</sup> October.
- 2014 National Seminar on Emerging Trends in Applied Mathematics, Haji Karutha Rowthar Howdia College, Uthamapalayam, 4<sup>th</sup> September.

- 2014 National Seminar on Advances in Mathematics and its applications, NS College of Arts and Science, Theni, 3<sup>rd</sup> September.
- 2014 National Seminar on Recent Trends in Pure and Applied Mathematics, Mar Ivanios College, Trivandrum, 21-23<sup>rd</sup> August.
- 2014 National Seminar on Emerging Trends in Pure and Applied Mathematics, Pope's College, Sawyerpuram, 24<sup>th</sup> and 25<sup>th</sup> July.
- 2014 National Seminar on Recent Trends in Mathematical Models, Govt. Arts college for Women, Pudhukkottai, 12<sup>th</sup> and 13<sup>th</sup> March.
- 2014 National Seminar on Recent Research Developments in Mathematics, Thiruvalluvar College, Pappasam, Vickramasingapuram, 7<sup>th</sup> March.
- 2014 National Seminar on Recent Advances in Graph theory and operator theory, Dr. SNS Rajalekshmi College of Arts and Science, Coimbatore, 28<sup>th</sup> February.
- 2014 Mathematical Association Inauguration (Key note and talk), N.M. Christian College, Marthandam, 3<sup>rd</sup> February.
- 2013 National Seminar on recent trends in Mathematical and Graph Models, M.S.N Pioneer Meenakshi College, Sivbagangai, 29<sup>th</sup> December.
- 2013 Mathematical Association Inauguration (Key note address and talk), Govt. College Nedumangadu, 25<sup>th</sup> November.
- 2013 National Seminar on Algebra and Analysis, Holy Cross College, Nagercoil, 25<sup>th</sup> September.
- 2013 National seminar on Graph Connection and Decompositions, Holy Cross College Nagercoil, 5<sup>th</sup> September.
- 2013 One day national workshop on Managerial decision making – systems and operations research models, St. Xavier's College of Engineering, Nagercoil, 19<sup>th</sup> April 2013.
- 2012 Faculty development programme on Applications of Mathematics held at Rajagiri School of Engineering and Technology, Kochi, From 5<sup>th</sup> to 15<sup>th</sup> December.
- 2012 Essentials of Latex Programming held at Department of Mathematics, All Saints' College Thiruvananthapuram, from 21<sup>st</sup> to 23<sup>rd</sup> November.

- 2012 National seminar on Recent Trends in Graph theory and its applications held at St. Xavier's Catholic college of Engineering, Chunkankadai on 29<sup>th</sup> September.
- 2012 Emerging trends in Pure and applied Mathematics held at Popes college Sayerpuram, Thoothukkudy from September 13<sup>th</sup> to 14<sup>th</sup>.
- 2012 National conference on Frontiers of Pure and Applied Mathematics, held at The Madurai Diraviyam Thayumanavar Hindu College, Thirunelveli, from March 21<sup>st</sup> to 22<sup>nd</sup>.
- 2012 National conference on Graph Theory, Algebra and Analysis, held at Sadakathuallah . . . Appa College, Thirunelveli, on 6<sup>th</sup> and 7<sup>th</sup> March.
- 2012 Emerging trends in applications of Mathematics held at Holy Cross College Nagercoil on 27<sup>th</sup> February.
- 2012 On Mathematics and its Application, in the Department of Mathematics, University of Calicut, on 15<sup>th</sup> February.
- 2012 National seminar on Modern Topology and its applications to Graph Theory held at Sarah Tucker College, Tirunelveli on 25<sup>th</sup> January.
- 2011 National Seminar on recent Trends in Mathematics held at A. P. C. College, Thoothkudi, from 12<sup>th</sup> October to 13<sup>th</sup> October, 2011.
- 2011 National seminar on Fuzzy logic and its applications held at K. E. College, Mannanm, Kottayam, from 27<sup>th</sup> September to 29<sup>th</sup> September.
- 2011 National seminar held at St. Stephens College, Pathanapuram January 24<sup>th</sup>.
- 2011 National seminar on Mathematics and its applications, Lekshmipuram College, Kanniyakumari district, February 10<sup>th</sup> and 11<sup>th</sup>.
- 2011 Mathematics and Nature with Special Reference to Chemistry at Department of Chemistry, St. Joseph College, Moolamattom on January 14<sup>th</sup> 2011
- 2011 National conference on Recent Trends in Graph Theory and Applications held at St. Xavier's College, Palayamkottai from February 24<sup>th</sup> and 25<sup>th</sup> February (Gave a talk on Graph Connections with special references in Analysis.)
- 2010 Seminar on Applicable Mathematics held at Department of Mathematics, Scott Christian College, Nagercoil, 20<sup>th</sup> march.



- 2010 National Seminar on Emerging Trends in Fluid Mechanics and Graph Theory held at Department of Mathematics, Christ University, Bangalore, February 25 - 26 .
- 2010 Regional Seminar on Mathematical Information Theory held at Department of Mathematics, Nesamony Memorial Christian College, Marthandam on 8<sup>th</sup> April 2010.
- 2009 National Seminar on Mathematical Models and Methods in Applied Sciences held at Department of Mathematics, K.E.College, Mannanam.
- 2009 National Seminar on Mathematical Modeling- A Tool to Life Sciences held at Department of Mathematics, NSS College, Cherthala.
- 2009 National Seminar on Current Trends in Discrete Mathematics and Analysis, M.G.College, Thiruvananthapuram.
- 2009 National Seminar on Discrete Mathematics and its Applications held at the Department of Mathematics, M.E.S. Kalladi College, Mannarkkad.
- 2008 National Seminar on Lecture series on Environment held at M.G.College, Thiruvananthapuram.
- 2008 One day Seminar on Statistics and Mathematics held at Government College, Kariavattom, Thiruvananthapuram.
- 2007 National Seminar on Mathematical Modeling and Simulation 16-18 August organized by Department of Mathematics, K.E.College, Mannanam, Kottayam.
- 2007 National Seminar on Algebra and Discrete Mathematics 14-16 march organized by Department of Mathematics, Mar Ivanios College, Thiruvananthapuram.
- 2006 National Seminar on Modern Trends in Graph Theory, Department of Mathematics, Newman College, Thodupuzha, Kerala.
- 2004 One day seminar on Graph Theory, Department of Mathematics, Sree Ayyappa College for Women, Chunkankadai, Tamil Nadu.
- 2004 Seminar on Graphs and Graphics, Department of Mathematics, T.K.M.M.College, Nangiarkulangara.
- 2003 National Seminar on Graph Theory and Fuzzy Mathematics, Catholicate College, Pathanamthitta.
- 1999 Seminar on Recent Trends in Graph Theory, School of Applicable Mathematics, M.G. University.

## **ASSOCIATIONS**

- Life member of Kerala Mathematical Association
- Life member of Ramanujan Mathematical Association

## **HONORS**

- 2015 IMRF Excellence Award
- 2014 1. Bharat Gaurav Award (by IIFS)  
2. Glory of India Gold Medal (by IISA)
- 2014 (Onwards) Member, Editorial Board, Graph Labelings, Madura College, Madurai.
- 2013 (Onwards) Hon. Director, Center for quantitative analysis, University of Kerala.
- 2012 (Onwards) Member, Editorial board, GSTF Journal on Mathematics, Statistics and Operations. Research (JMSOR). Mapana Journal of sciences.
- 2010 (onwards) Member, Editorial board, Mapana Journal of sciences (MJS), Christ University, Bangalore.
- 2010 (onwards) Referee of articles for various Journals.
- 2005 Selected as a Faculty member in the Civil Service Academy, Government of Kerala, Thiruvananthapuram.

## **GRANTS AWARDED**

1989 – 1994 University Grants Commission, New Delhi. (JRF and SRF)

## **OTHER ACTIVITIES**

1. UGC-SAP Coordinator, Department of Mathematics, University of Kerala, 2013 to 2018.
2. Course coordinator, Refresher Course in Mathematics, Academic Staff College, University of Kerala, 2011 to 2017.
3. Member, subcommittee for Mathematics and Science, Text book commission, Kerala (2010 onwards).
4. Member in the panel of External Experts for Ph. D. Course work in Mathematics, M. G. University, Kottayam.

5. Served as a Resource person for refresher courses at various Universities and institutions.
6. Evaluated many Ph. D. thesis of various Universities and worked as a chairman of Board of adjudicators.
7. Served as a subject expert in selection committees of various institutions for the post of lecturers in Mathematics.
8. Member of Functional Committee (Tour and Excursions) 97<sup>th</sup> Indian science Congress hosted by Indian space Research organization and university of Kerala, from 3-7 January 2010.
9. Member, academic committee national symposium on sustainable Management of Biodiversity using Science & Technology, 2011 conducted by National Academy of Science India and University of Kerala.
10. Member, Academic Council, FMN College, Kollam (2015-2017).
11. Served as a Judge for Young Scientist award committee of Kerala Science Congress held at Calicut from 29 to 30, January 2016.
12. Served as a Member of Project Evaluation Committee of University Grant Commission (UGC) held at Bangaluru from 1 to 2 February 2016.
13. Member, Curriculum Development Council, M K University, Madurai (2015 onwards).
14. Member, UGC Research Project Reviewer Panel(2015 onwards)
15. Member, Academic Council, Mar Ivanious College, Kollam (2017-till date).
16. Member, Faculty of Science Cochin university of science and Technology, Cochin 2016 onwards