

Dr. R. Malathi – Academic Profile

AREA: Multi-Valued Logic



Dr. R.Malathi, M.Sc., M.Phil., Ph.D Assistant Professor of Mathematics,

Department of Mathematics,

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Academic Brief

Guided & guiding many scholars to M.Phil Dissertation

Life member in many professional societies

Editorial board member of IJESIRD, JECET and GJRF Journal

Teaching experience of nearly eighteen years at University level

Teaching M.E/MCA/MBA/M.Phil/M.Sc/M.Tech/B.E/BCA/B.Sc/BSCS

Personal and Academic Profile

Name	: R.MALATHI
Fathers Name	: A. Rajendiran
Date of birth	: 05.05.1974
Languages Known	: Tamil, English (Learning Hindi)
Marital Status	: Married
Interests	: Collecting and reading books in Mathematics, Delivering talks on Mathematics and Conducting (the sessions of) workshops on Mathematics with software
Qualifications	: M.Sc., M.Phil., Ph.D
Occupation	: Assistant Professor of Mathematics, SCSVMV

Experience	: 17+ Years in teaching Mathematics
Courses Taught	: M.E/M.Tech/MCA/MBA/M.Phil/M.Sc/BSCS/ B.E/BCA/B.Sc.
Papers Taught	: Engineering Mathematics (All Semesters) Numerical Analysis, Business Statistics, Quantitative Techniques, Operations Research, Discrete Mathematics, Automata Theory, Probability, Statics, ODE, Complex Analysis & Statistics.
Research Guidance	: Guided 28 research scholars to M.Phil Dissertation and 1 M.Sc Dissertation Guiding 2 research scholar to M.Sc Dissertation.

RESEARCH INTERESTS INTER DISCIPLINARY

Multi-valued logic
 Operations Research Modeling
 Network Models
 Linear Algebra
 Discrete Mathematics
 Applied Graph Theory
 Applied Mathematics
 Logical agents

PUBLICATIONS (Total: 21)

21. A.R.Shoba, R.Malathi, Condition For Complete Graph – Using Fuzzy Graph, Journal of Environmental Science, Computer Science and Engineering & Technology, Vol. 7[4] issue, November 2018. IF :1.364 **An International Refereed Journal**
20. A.R.Shoba, Hemanath S, R.Malathi Condition for Double Line Graph – Using Fuzzy Graph International Journal Of Advanced Research In Science, Engineering And Technology Vol. 5, Issue 10 , October 2018. ISSN: 2350-0328. I.F : 5.474 **Peer Reviewed**.
<http://www.ijarset.com/currentissue.html>
19. R.Malathi, Jaina Logic on Matrix, published in the International Journal of Engineering Science Invention Research & Development; Vol.IV Issue IX, May 2018, e- ISSN: 2349-6185, P.No:354-355. https://www.ijesird.com/may3_2018.PDF
18. R.Malathi & Babu.N, Perfect and Efficient Edge Domination in Graphs, ISSN: 2278-8697. Mathematical Sciences International Research Journal (IMRF- **UGC .No: 43832**), **Peer Reviewed**. Vol.7, Issue 1, 2018 IF: 2.73, P.No: 299-304.
<https://www.imrfjournals.com/msirj71>

17. R.Malathi & Balamurugan.D, Connected Domatic Number of a Graph, P.No.295-298, ISSN: 2278-8697.Mathematical Sciences International Research Journal (IMRF- UGC .No: 43832), Peer Reviewed, Vol.7, Issue 1, 2018, IF: 2.73
16. R.Malathi & Bangarappa.G, Unique Minimum Edge Domination in Trees, P.No.292-294, ISSN: 2278-8697.Mathematical Sciences International Research Journal (IMRF- UGC .No: 43832), Peer Reviewed, Vol.7, Issue 1, 2018, IF: 2.73
15. R.Malathi, T.Venugopal” Jaina Logic And Decision Support System” published in International Journal of Current Research and Review (IJCRR) Peer Reviewed::Scientific, Vol.9, issue 10, May 2017, IF:4.016, ICV : 71.54(2015), UGC Listed Journal: Sr. No. 16636, ISSN: 2231-2196 (Print), ISSN: 0975-5241 (Online), PP- 65-67 http://ijcrr.com/uploads/1143_pdf.pdf
14. R.Malathi, C.Tamizharasi” Power sums through Mathematical Induction” published in International Journal of Current Research and Review (IJCRR) Peer Reviewed::Scientific, Vol.9, issue 10, May 2017, IF:4.016, ICV : 71.54(2015), UGC Listed Journal: Sr. No. 16636, ISSN: 2231-2196 (Print), ISSN: 0975-5241 (Online), PP-68-70 http://ijcrr.com/uploads/1144_pdf.pdf
13. R.Malathi,C.Yogeesvaran “Fibonacci Sequence and its Special Properties” published in International Journal of Scientific Research Peer Review, International Journal, pp:544-546, Vol.6 [issue:1] January-2017, ISSN No 2277-8179 IF:3.508 IC Value:78.46. <https://worldwidejournals.in/ojs/index.php/ijsr/article/view/14791/14905>.
12. R.Malathi, K.Muniyappan “A Study on Queueing Model” published in International Journal of Engineering Science Invention Research & Development, Vol.III, Issue VI, December 2016, e-ISSN:2349-6185.IF 2.215, pp 329-331. http://www.ijesird.com/1_December_3_16.pdf
11. R.Malathi, S.Sridharan “A Study on Generalized Bi-Polar Fuzzy Graphs” publication International Journal of Advanced Research in Science, Engineering and Technology Vol.3, Issue 12, December 2016 IF 2.179, pp: 3025-3032. Peer Reviewed
10. R.Malathi, T.Venugopal “Jaina logic and Rules of inference – A Prologue”, published in “Global Journal of Pure and Applied Mathematics(GJPAM) Scopus, P.No:239-246 ISSN 0973- 1768, Volume 12, Number 1 (Jan-Feb-2016) (Anna University– Annexure–II)” Impact factor 2.58©Research India Publications, Scopus indexed13670. http://www.ripublication.com/gjpam16spl/gjpamv12n1spl_41.pdf
9. R.Malathi,T.Venugopal “Jaina logic is best for Artificial Intelligence” published in “International Journal of Business Intelligence & Innovations Special volume issue 3, pp 132-140 ISSN No :2348 4705, January 2016.
8. R.Malathi and T.Venugopal “The Jaina Logic Way of Wumpus World published in ”International Journal of Engineering Science Invention Research & Development”; Vol. II (VI), December 2015 , pp: 302-315 e-ISSN: 2349-6185 with Impact factor- 1.045 <http://www.ijesird.com/december%204.pdf>
7. R.Malathi “Transportation Problem and Its Object Oriented Programming Languages” published in the International Journal of Engineering Science Invention Research & Development; Vol.II Issue III September 2015, e- ISSN: 2349-

6185,P.No:138-143.

<http://www.ijesird.com/SEPTEMBER%202015%20PAPER/September-2.pdf>

6. R.Malathi and J.Kavitha ‘ Eccentricity and Critical Path ’ published in the ”International Journal of Engineering Science Invention Research & Development”; Vol. I Issue IX March 2015 , e-ISSN: 2349-6185 . P.No: 344-350 Impact factor: 1.045 <http://www.ijesird.com/March Paper/March paper 5.pdf>
5. R.Malathi ‘Edge domination in graph’ Published in the ‘International Journal of Business Intelligence & Innovations ‘,March 2015,Volume 1,Issue 1 ,ISSN 2348 4705. P.No: 123-129.
4. .Malathi “Graph colouring problem applied in genetic algorithm “ and which was published in the Indian Journal of Sciences, February -2015, Department of Physics, SCSVMV University (ISSN 2319-7730 EISSN 2319- 7749), 13(38) page : 37-41. http://discoverjournals.com/science/current_issue/v13/n38/A1.pdf
3. R.Malathi ‘Domination Number on Balanced Signed Graphs’ Published in the Indian Journal of Sciences , February -2015, Department of Physics, SCSVMV University (ISSN 2319-7730 ISSN 2319-7749), 13(37) page 29-36 http://discoverjournals.com/science/current_issue/v13/n37/A3.pdf
2. R.Malathi and A.Alwin :The paper titled “Application of Gaussian in Circuit Theory ” Published in the International Journal of Computing Algorithm, February-2014, Volume:03, Pages: 507-510. ISSN No.2278 -2397 file:///C:/Users/Hemamalini/Downloads/V3_I1_2014_paper9.pdf
1. R.Malathi and S.Sujatha The paper titled ” Discrete Fourier Transform in Sinusoid” (page number : 36-40). which was Published in Sri Sarada Journal of Frontiers of Knowledge, Volume –II, Issue -3, September 2013 by Sri Sarada College of Education (Autonomous), Salem. ISSN No.2277-3398.

PRESENTATIONS (Total:23)

23. M.Jeyapreethi, R.Malathi Presented, **Multiple Valued Logic Using Rules of Inference** in the National Conference (NCANGFCET’19), Department of Mathematics, Sriram Engineering College, Perumalpattu, Chennai held on 1st March, 2019.
22. M.Anupriya, R. Malathi Presented, **Finding Eigen Values for Butterfly Graph** in the National Conference (NCANGFCET’19), Department of Mathematics, Sriram Engineering College, Perumalpattu, Chennai held on 1st March, 2019.
21. M.Anupriya, R. Malathi Presented, **Finding Eigen Values for Banana Tree** in the National Conference (NCANGFCET’19), Department of Mathematics, Sriram Engineering College, Perumalpattu, Chennai held on 1st March, 2019.
20. M.Jeyapreethi, R.Malathi Three Valued Logic As An Inputs And Binary As Outputs, ICPAM, 17-19 December 2018, SCSVMV.
19. M.Anupriya, R. Malathi Finding Eigen Values For Complete Graph, ICPAM, 17-19 December 2018, SCSVMV.
18. Condition for Double Line Graph-Using Fuzzy Graph, National Conference on Information and Communication Engineering (NICE 18) April 18th,2018, Organized by Dept.of CSE, Sairam Institute of Technology, West Tambaram, Chennai-44.

17. Condition for Complete Graph-Using Fuzzy Graph, National Conference on Information and Communication Engineering (NICE 18) April 18th,2018, Organized by Dept.of CSE,Sairam Institute of Technology,West Tambaram,Chennai-44.
16. A.R.Shoba & R.Malathi, Properties Relating to The Notions of Fuzzy Graph, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV.
15. R.Malathi, T.Venugopal, Three Valued Logic on Complex Logical Variables, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV.
14. R.Malathi & Babu.N, Perfect and Efficient Edge Domination in Graphs, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV.
13. R.Malathi & Balamurugan.D, Connected Domatic Number of a Graph, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV.
12. R.Malathi & Bangarappa.G, Unique Minimum Edge Domination in Trees, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV.
11. C.Tamizharasi, R.Malathi Power sums Through C++ National Conference on Advanced Trends in Mathematics, Thiruvalluvar University College of Arts and Science, Thennangur,Vandavasi on 27.03.2017.
10. R.Malathi, T.Venugopal Jaina logic and decision support system International Conference on Functional Materials, organized by the Department of Physics, SCSVMV University, Enathur, Kanchipuram on 2-3.3.17.
9. R.Malathi, C.Tamizharasi “Power sums through Mathematical Induction, International Conference on Functional Materials, organized by the Department of Physics, SCSVMV University, Enathur, Kanchipuram on 2-3.3.17.
8. M.Lavanya and R.Malathi “ Electronic Objects of Adjacency Matrix in Graph Theory”May 5 & 6 2016, “International Conference on Data Analytics and Mathematical Modeling”, Organised by Department of Mathematics, CSE&IT Aarupadaiveedu Institute of Technology.
7. S.Sujatha, M.Lavanya and R.Malathi “DVD player with Tree” Presented in the “one day National Conference on Pure and Applied Mathematics”on 12.03.2016 Department of Mathematics School of Advanced Sciences ,VIT University,Vellore.
6. R.Malathi,T.Venugopal “Jaina logic is best for Artificial Intelligence” Presented in the “National Conference on Recruitment, Reward and Retention held during 21st January - 2016, organized by Department of Business Administration, The New College (Autonomous), Chennai – 600 014, Tamilnadu.
5. R.Malathi, T.Venugopal “Jaina logic and Rules of inference – A Prologue” presented in “The 8 th National Conference on Mathematical Techniques and its Applications(NCMTA 2016), Department of Mathematics, 4 and 5 Jan 2016, SRM University, Kattankulathur **with Proceedings PP: 433-448.**
4. R.Malathi ‘Edge domination in graph’ Presented in the International conference on“Management Practices Beyond The Horizon”,on 07.03.15, D.G.Vaishnav college, Arumbakkam, Chennai.
3. R.Malathi ‘Domination Number on Balanced Signed Graphs’ Presented in the International Conference on Frontier Areas of Physics”(INACFAP-2014), organized by Department of Physics, SCSVMV University on 18th and 19th December 2014.
2. R.Malathi, A.Alwin Presented a paper in “ National Conference on Mathematical Techniques and its Applications (NCMTA 2014) conducted at SRM University,

Kattankulathur during 6th and 7th of January 2014. .Title : Mathematical Modelling of Electrical Circuits through Linear Differential Equations of Second Order.

1. R.Malathi, A.Alwin Presented a paper in “ International Conference on Theoretical Computer Science –IC-TCS13” held at Loyola College ,Chennai, during October 03-05,2013.Title : Application of Gaussian in Circuit Theory.

PROCEEDINGS (Full papers: 7; Abstract:7 -Total:14)

- ❖ M.Jeyapreethi, R.Malathi Three Valued Logic As An Inputs And Binary As Outputs, ICPAM, 17-19 December 2018, SCSVMV.
- ❖ M.Anupriya, R. Malathi Finding Eigen Values For Complete Graph, ICPAM, 17-19 December 2018, SCSVMV.
- ❖ Full Paper Proceedings: A.R.Shoba & R.Malathi, Properties Relating to The Notions of Fuzzy Graph, P.No.493-496, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV, ISBN: 978-93-87088-01-6
- ❖ Full Paper Proceedings: R.Malathi, T.Venugopal, Three Valued Logic on Complex Logical Variables, P.No.497-504, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV, ISBN: 978-93-87088-01-6.
- ❖ Abstract Proceedings: R.Malathi & Babu.N, Perfect and Efficient Edge Domination in Graphs,P.No.644, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV, ISBN: 978-93-87088-01-6
- ❖ Abstract Proceedings: R.Malathi & Balamurugan.D, Connected Domatic Number of a Graph, P.No.645, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV, ISBN: 978-93-87088-01-6
- ❖ Abstract Proceedings: R.Malathi & Bangarappa.G, Unique Minimum Edge Domination in Trees, P.No.645, ICPAM February 19-20,2018.Department of Mathematics, SCSVMV, ISBN: 978-93-87088-01-6
- ❖ Full Paper Proceedings: C.Tamizharasi, R.Malathi Mathematical Induction Through C++ National Conference on Advanced Trends in Mathematics, Thiruvalluvar University College of Arts and Science, Thennangur,Vandavasi on 27.03.2017. pp 50-55 ISBN: 978–93-85126-14-7.
- ❖ Abstract Proceedings: R.Malathi, T.Venugopal Jaina logic and decision support system International Conference on Functional Materials, organized by the Department of Physics, SCSVMV University, Enathur, Kanchipuram on 2-3.3.17. Abstract : pp.47
- ❖ Abstract Proceedings: R.Malathi, C.Tamizharasi “Power sums through Mathematical Induction, International Conference on Functional Materials, organized by the Department of Physics, SCSVMV University, Enathur, Kanchipuram on 2-3.3.17. Abstract : pp.47
- ❖ Full Paper Proceedings: M.Lavanya and R.Malathi “ Electronic Objects of Adjacency Matrix in Graph Theory” May 5 & 6 2016, “International Conference on Data Analytics and Mathematical Modeling”, Organised by Department of Mathematics, CSE&IT Aarupadaiveedu Institute of Technology. PP 132-138. ISBN: 978-93-81208-72-4

- ❖ Abstract Proceedings: S.Sujatha,M.Lavanya and R.Malathi “DVD player with Tree” Presented in the“one day National Conference on Pure and Applied Mathematics” on 12.03.2016.Department of Mathematics School of Advanced Sciences ,VIT University,Vellore.PP:39
- ❖ Full Paper Proceedings: R.Malathi,T.Venugopal “Jaina logic and Rules of inference – A Prologue” presented in “The 8 th National Conference on Mathematical Techniques and its Applications(NCMTA 2016), Department of Mathematics, 4 and 5 Jan 2016, SRM University, Kattankulathur with Proceedings PP: 433-448.
- ❖ Abstract Proceedings: R.Malathi, A.Alwin “Cordial Labeling on Balanced Signed Graphs” presented in National Conference on Trends in Science & Humanities 2014” on 11 April 2014, PP:51, ISBN 978-93-80485-36-2.

EDITORIAL BOARD MEMBER

- ✚ Editorial board member of IJESIRD Journal.
<http://www.ijesird.com/Editorial%20Board.html>
- ✚ Editorial board member of JECET Journal.
http://www.jecet.org/static_page.php?heading=Editorial%20Board
- ✚ Editorial board member of GJRF Journal.

BOOK EDITOR & Associate Editor

- ✚ Acted as a Editor, Proceedings of the 2nd International Conference on Pure and Applied Mathematics, organized by department of Mathematics, SCSVMV, during 17-19 December 2018.
- Associate Editor for JAINA ALGEBRA, Published by 108 Sri Vishveshagarji Munimagaraj, Pancha kalyanam, Sri Adhi Bhagavan Temple Trust, Erumbur. Edition: First, May 2017.
- Associate Editor for JAINA LOGIC AND DECISION SUPPORT SYSTEM Published by 108 Sri Vishveshagarji Munimagaraj, Pancha kalyanam, Sri Adhi Bhagavan Temple Trust, Erumbur. Edition: First, May 2017.
- Associate Editor for JAINA LOGIC AND KNOWLEDGE DISCOVERY Published by 108 Sri Vishveshagarji Munimagaraj, Pancha kalyanam, Sri Adhi Bhagavan Temple Trust, Erumbur. Edition: First, May 2017.
- Editor for Basic Engineering Mathematics-II (I-Year book) 2016-17, it was published on March 2017.
- Editor for Basic Engineering Mathematics-I (I-Year book) 2015-16, it was published on Aug 2016.

JUDGE

- Acted as Judge for “Logo Matchy” competition for WMD-Helix’18 on 23.03.2018.

- Acted as Judge for “Painting” competition” for National Mathematics Day on 30.09.2016
- Acted as judge for the event of AZADI -70 competitions for Poem Writing, organized by Faculty of Arts and Humanities, SCSVMV.
- Acted as ‘Quiz Master’ for National Mathematics Day on 01.04.2016
- Acted as judge for ‘Short film’ for National Mathematics Day on 31.03.2016
- Acted as judge for Women’s Day Celebrations 2016 for the event “Jewellery Making” to the students on 09.03.2016.
- Acted as judge for 10th Youth Festival Tarunyam 2015 for the Mehandhi Event.
- Acted as judge for 9th Youth Festival Tarunyam 2014 for the Rangoli & Mehandhi Event.
- AAVISHKAR’ 13 Judge for Cultural Events- 24.09.2013-Dept.of EIE.
- APOGEE –Feb 6 & 7, 2013 Judge for Mehandi, Vegetable carving and Rangoli.

CHAIR PERSON:

🚩 Acted as a Chair Person, 2nd International Conference on Pure and Applied Mathematics, organized by department of Mathematics, SCSVMV, during 17-19 December 2018.

COLLOQUIUM (Total:9)

- Application of Graph Coloring using Welch-Powell Algorithm on 15.11.19
- Balancing Chemical Equation Using a Matrix on 3.8.18.
- Extension of factorial concept to negative numbers on 4.8.17.
- Application of first and second derivatives in R - L - C transients through circuit animation on 26.08.2016
- Math with open source software : sage, winplot and winmat was delivered on 14.08.2015
- How the agent will retrieve the gold safely using the Truth Table? was delivered on 06.02.2015
- “Application of Gauss Elimination in Circuits” was delivered on 04.04.2014
- “Application of complementary function in R.L.C transients” was delivered on 15.02.2013
- Application of Laplace Transform in circuit theory.
- Number Theory

MEMBERSHIP

🚩 AMTI - Junior Mathematics Membership -Life long, ID: AMTI56457989
B-19, Vijay Avenue, Old No37, New No 85, Venkatarangam St., Triplicane,
Chennai-600 005.

🚩 Indian Society of Industrial and Applied Mathematics (ISIAM), member (M-

56)-life long, Prof. Mrs. Pammy Manchanda, 15, Doctors Avenue, Amritsar – 143 001. (India)

✚ The Association of Mathematics Teachers of India (AMTI) - Life long, B-19, Vijay Avenue, Old No 37, New No 85, Venkatarangam St., Triplicane, Chennai – 600 005.

✚ IAENG – International Association of Engineers - Member number 217349.

ARTICLES (Total: 7)

- ✚ Published **Balancing Chemical Equation Using a Matrix** in VIJNANA VEEKSHA (A Science Magazine) - National Science Day, 04.03.2019, SCSVMV.
- ✚ Published **Basic Knowledge On Math That Every Engineer Should Know** in 15th September 2018, "InjenieursNavapravastana" 51st Engineers' Day, SCSVMV.
- ✚ Published **Extension of factorial concept to negative numbers** in The Amazing world of Math (A Mathematics Magazine), 23.03.2018, SCSVMV.
- ✚ Published **R-L-C Transients Through Circuit Animation** in The Amazing world of Math (A Mathematics Magazine), 01.03.2017, SCSVMV University.
- ✚ Published "Handy Things with Complex Numbers" in VISION OF SCIENCE (A Science Magazine) - National Science Day, 2017 SCSVMV University.
- ✚ Published "Jainism" in VISION OF SCIENCE (A Science Magazine) - National Science Day, 2016 SCSVMV University.
- ✚ Published "Application of complimentary functions in R-L-C transients" in VISION OF SCIENCE (A Science Magazine) - National Science Day, 2013 SCSVMV University.

ASSISTED THE RESOURCE PERSON

- Assisted the resource person in the Workshop on Matlab for Researchers, organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram on 12.02.2017. (No certificate)
- Assisted the resource person in the National Workshop on Math with Open Source Software GeoGebra & Winplot on 12th February 2016, at Sankara college organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.
- Assisted the resource person in the Workshop on Math with Matlab for Researches on 7th February 2016, organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.
- Assisted the resource person in the National Workshop on Basics of MATLAB on 10th October 2014, organized by the Department of Physics, SCSVMV University, Enathur, Kanchipuram.

BOOK (with ISBN: 3; without ISBN: 5 -Total: 8)

- R.Malathi, T.Venugopal, Design of Knowledge Discovery & Decision Support System Using Jaina Logic by R.Malathi, T.Venugopal, LAMBERT Academic Publishing, ISBN : 978-3-330-04819-5. Published on 03.10.2018.
<https://www.morebooks.shop/store/gb/book/design-of-knowledge-discovery-decision-support-system-using-jaina-logic/isbn/978-3-330-04819-5>
mail ID: m.cugut@lap-publishing.com
- Dr.R.Malathi, Dr.T.Venugopal JAINA ALGEBRA, Published by 108 Sri Vishveshagarji Munimagaraj, Pancha kalyanam, Sri Adhi Bhagavan Temple Trust, Erumbur. Edition: First, May 2017.
- Dr.R.Malathi, Dr.T.Venugopal JAINA LOGIC AND DECISION SUPPORT SYSTEM Published by 108 Sri Vishveshagarji Munimagaraj, Pancha kalyanam, Sri Adhi Bhagavan Temple Trust, Erumbur. Edition: First, May 2017.
- Dr.R.Malathi, Dr.T.Venugopal JAINA LOGIC AND KNOWLEDGE DISCOVERY Published by 108 Sri Vishveshagarji Munimagaraj, Pancha kalyanam, Sri Adhi Bhagavan Temple Trust, Erumbur. Edition: First, May 2017.
- R.Malathi et al “Basic Mathematics for Engineers – I” Published in SCITECH PUBLICATIONS (INDIA) PVT. LTD , ISBN : 978 93 85983 06 1, August 2016.
- Prepared and Published “A Hornbook for Basic Computing” University press, 2016.
- Prepared “National Workshop on Math Using Open Source Software ” material for Participants of National Workshop on Math Using Open Source Software, University Press, Enathur, Kanchipuram.
- Prepared and Published “ A Primer for Engineering Students with Examples” for First Year Students. Scitech Publications (INDIA) PVT.LTD., ISBN NO: 978-81-8371-427-3, 2012
- Prepared and Published “Bridge Course Material” for First Year Students, Deepam DTP, Kanchipuram.

RESOURCE PERSON

- ❖ Dr.R.Malathi, Asst. Prof. of Mathematics, acted as the Resource Persons in the one day “Workshop on Introduction of Matlab”(IEEE student Branch), organized by the Department of Electrical and Electronics Engineering, SCSVMV, Kanchipuram on 21.09.2019.
- ❖ Acted as a Chief guest cum Resource person in the National Workshop on Math Using Open Source Mathematics Software, organized by the Department of Mathematics, Wisdom Women’s College of Arts and Science Anakkavoor, Cheyyar on 28.03.2018.
- ❖ The Resource Person (Topic : Complex number and the complex exponential) in the QEP-II on 20.09.2016, organized by the Department of Mathematics , SCSVMV University , Enathur , Kanchipuram.

- ❖ The Resource Person in the National Workshop on Math Using Open Source Software on 3rd & 4th September 2015, organized by the Department of Mathematics , SCSVMV University , Enathur , Kanchipuram.
- ❖ Convenor cum Resource Person of MATLAB and its Applications on 06.03.2014, SCSVMV University , Enathur, Kanchipuram.

SEMINAR (Attended: 17)

- International Seminar on Complex Analysis, Organized by Dept.of Mathematics, SCSVMV on 21.3.19
- International seminar on Astronomical Mathematics, Organized by Dept.of Mathematics, SCSVMV on 30.11.2018
- Participated “International Seminar on Recent Advances in Chemical Science” organized by Dept.of Physics, SCSVMV University on 09.08.2017.
- International Seminar on Fluid Mechanics, Department of Mathematics, SCSVMV University on 06.03.2017.
- National Seminar on Emerging Trends in Pure and Applied Mathematics, Department of Mathematics, SCSVMV University on 24.02.2017
- National Seminar on Recent Advances in Physics-2016 organized by Department of Physics, SCSVMV University on 09.09.2016.
- International seminar on “Power sums and Univariate distributions” Department of Mathematics, SCSVMV University on 02.09.2016
- Seminar on “Effective Teaching & Learning practices, organized by Department of computer science and application, SCSVMV University on 19.08.2016.
- International Seminar on “Impact of Electromagnetic Radiation on Humans” organised by Department of EEE, held at SCSVMV on 06.05.2016.
- Seminar on “Simulation of Cloud Computing Protocols” Department of Mathematics, SCSVMV University on 25.02.2016
- Seminar on “Cloud Computing and Big Data Analytics” Department of Mathematics, SCSVMV University on 29.01.2016
- Attended a National Seminar on Practical Mathematics and Statistics ,Sri Sankara Arts & Science College on 07.03.2012 and 08.03.2012.
- Attended a National Seminar on Emerging Research Trends in Basic Sciences, organised by Department of Science and Humanities, held at SCSVMV on 19.03.2010.
- Attended a National Seminar on Emerging Trends and Challenges in Higher Education in India organized by the School of Education ,SCSVMV on 21.8.2009.
- Attended a National Seminar on Graph theory , Algorithms and Networks/Systems , organised by the department of Computer Science and Engineering, SCSVMV on 20.07.2009 and 21.07.2009.
- Attended Regional Seminar on Intellectual Property Right held at SCSVMV on 9th and 10th March’05.
- Attended a Seminar on Solar Thermal Application held at SCSVMV on

08.03.03.

WORKSHOP (Attended: 21)

- Attended International workshop on Graph Theory and its Applications organized by the Department of Mathematics, SCSVMV, 20&21 December 2018.
- Participated in the One Day Workshop on “Investment Avenues and their Tax Benefits” organized by Department of Faculty of Management Studies, Commerce and Human Resource in association with Southern Indian Regional Council of the Institute of Company Secretaries of India Under the Sponsorship of Investor Education & Protection Fund Authority, Ministry of Corporate Affairs on Tuesday, 27th March 2018., SCSVMV on 28.03.2018.
- Participated “National Workshop on Matlab in Applied Sciences” organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram on 15-16 September, 2017.
- Participated in the Workshop on Research, Innovation and Intellectual Property Rights, organized by the Department of Computer Science & Engineering, SCSVMV University, Enathur, Kanchipuram on 24.03.2017.
- Participated in the Workshop on Matlab for Researchers, organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram on 12.02.2017.
- Participated in the National Workshop on Effective Teaching & Learning Methodology on 18th Feb 2016 Department of ECE, SCSVMV University.
- Participated in the Workshop on Math with Matlab for Researchers Organized by the Department of Mathematics, SCSVMV University on 07.02.2016
- Participated in the two day National Workshop on “Role of Nuclear and Radiation Chemistry In Energy generation”(RNRCEG-2016), Organized by the Department of Chemistry, SCSVMV University on 27th & 28th January 2016.
- Participated in the National Workshop on One day User Awareness Program on Shodhganga and Anti-Plagiarism Software (iThenticate / Turnitin) on 26th March 2015, organized by SCSVMV University Library, SCSVMV University, Enathur, Kanchipuram.
- Participated in the Workshop on Matlab and its Applications on 12th October 2015, organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.
- Participated in the National Workshop on Math Using Open Source Software on 3rd & 4th September 2015, organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.
- Participated in the National Workshop on Matlab Programming on 28th November 2014, organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.

- Participated in the National Workshop on LaTeX for Researchers organized by the department of Mathematics in Collaboration with the Department of Computer science & Applications, during February 15-16, 2014 at SCSVMV University.
- Participated in the Workshop on Matlab Programming on 6th September 2013, organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.
- Participated in One Day Regional Workshop on Research Methodology held on 30th August, 2013, Organized by the Department of Electronics and Communication Engineering, SCSVMV University.
- Participated in the National Level Workshop on "Writing scientific proposals and for Quality Research" organised by Department of Science and Humanities, SCSVMV on 14th, February 2013.
- Participated in the National Level Workshop on "Recent Advance in Mathematical Computing" organized by the School of Advance Sciences, Mathematics Division, VIT- Chennai on 30.11.12 & 01.12.12
- Attended Workshop on Linear Programming with Excel conducted by Department of Science and Humanities, SCSVMV on 23.04.2012 and 24.04.2012.
- Attended a Hand-on-Workshop on Cloud Computing, organized by the department of Computer Science and Engineering, SCSVMV on 30th March 2012.
- Attended a National Workshop on Modern Techniques in Analytical Chemistry, Organized by the Department of chemistry, SCSVMV University on February 10-11, 2011.
- Attended a workshop on Queuing Theory and Reliability Engineering held at Sri Venkateswara College of Engineering Pennalur, Sriperumbudur on 20th and 21st January 2006.

INVITED TALK

- Delivered a lecture for Induction Program for first year B.E (Civil Engineering - 2019 Batch students on 27.08.2019.
- Invited talk on "Jaina logic and Multi-valued logic" at Erumbur on 11.05.2017.
- Invited talk on "Complex number and exponential function" for QEP-II at SCSVMV University, on 20.09.2016.
- Invited talk on "Applications of Mathematics in circuit theory" for Mathematica Association " at SSKV College of Arts and Science for Women, Kanchipuram on 14.08.13

KEY-NOTE ADDRESS

- Key-note address on "Zero and Pi" National Mathematics Day-22.12.2016, Maharishi International Residential School, Sunguvarchatram.

APTITUDE CLASS

- ✚ Taken Aptitude class for III-ECE-B sec (odd sem -2014)

REMEDIAL CLASS

- Remedial class for final year EEE students (Oct, Nov-2015)
- Remedial class for I year students at Annapoorani & Saraswathi Hostel on 21.04.17&2.5.17.

SHORT TERM COURSE

- Attended short term course “ Electric Vehicle Technology”, Electrical Engineering Department, SCSVMV, 26.08.19 to 30.08.19.
- IOT of Manufacturing, Dept.of EIE, SCSVMV, 15.10.18 to 17.10.18.
- Cyber Crime & Forensic Tools through ICT, Organised By NITTTR, Chandigarh jointly with Department of Computer Science and Engineering, ICT-11054/17 from 06.02.2017 to 10.02.2017 (Except 09.02.2017)
- NITTTR Chandigarh jointly with Department of Computer Science and Engineering Organizes ICT based STC on “PHP and MySQL, from 23-01-17 to 27-01-17.
- ICT Based Stc On Web Based Content Generation From 28.03.2016 To 01.04.2016.Organised By NITTTR, Chandigarh Op. Plan No. ICT 69(Conducted by Dept.of CSE, SCSVMV University)

Q-PAPER SETTING

- Sathyabama University- Nov-Dec 2019
- Anna University Chennai.

Q-PAPER Scrutinizing

- Sankara college of Arts and Science.

EDUCATIONAL VISIT

- ✚ We (Staff-Mathematics) and B.Sc, M.Sc & M.Phil (Mathematics) Students) visited “Ramanujan Museum and Educational centre” on 12.09.2015.

RALLY

- Participated in Rally for women’s day (with SCSVMV Girls) from Anna

Arangam to Egambareswarar temple on 10.03.2016

POSTER PRESENTATION

- Poster on the topic entitled “ Application of Mathematics using the Kirchhoff’s law “ in the National Seminar on Frontier Areas of Spectrophysics (NASFAS 2013) on 19-20, December 2013 ,organized by the Department of Physics, SCSVMV University,Enathur, Kanchipuram.

ORIENTATION

- Attended UGC-Sponsored Orientation Programme ,organized by Bharathiar University Coimbatore from 08.05.2012 to 04.06.2012.

REFRESHER COURSE

- 🚩 Attended a Refresher Course sponsored by UGC and organized by the department of Computer Science and Engineering, SCSVMV from 09/2/05 to 01/3/05.

FACULTY DEVELOPMENT PROGRAM

- NPTEL-AICTE, Faculty Development Programme (Funded by the Ministry of HRD, Govt. of India) completing Higher Engineering Mathematics with 76% (July-Oct, 2019, i.e) 12 weeks- Equivalence of NPTEL course with regular FDP is 3/2 FDP)
- Attended a Faculty Development Program, organised by Department of Science and Humanities, SCSVMV on 18.02.2012 and 19.02.2012.

CONFERENCE (Attended: 12)

- Attended a” National Conference on Applications of Number Theory, Graph Theory, Fuzzy Logic and Combinatorics in Engineering and Technology (NCANGFCET’19), Department of Mathematics, Sriram Engineering College, Perumalpattu, Chennai held on 1st March, 2019.
- Attended a” International Conference on Pure and Applied Mathematics (ICPAM-2)”, 17-19 December 2018, SCSVMV.
- Attended a “International Conference on Pure and Applied Mathematics”, organized by the Department of Mathematics, SCSVMV, Enathur, Kanchipuram on 2-3.3.17.

- Attended a “National Conference on Advanced Trends in Mathematics”, Thiruvalluvar University College of Arts and Science, Thennangur, Vandavasi on 27.03.2017.
- Attended a “International Conference on Functional Materials”, organized by the Department of Physics, SCSVMV University, Enathur, Kanchipuram on 2-3.3.17.
- Attended a “National Conference on Recruitment, Reward and Retention held during 21st January - 2016, organized by Department of Business Administration, The New College (Autonomous), Chennai – 600 014, Tamilnadu.
- Attended a “The 8 th National Conference on Mathematical Techniques and its Applications(NCMTA 2016), Department of Mathematics, 4 and 5 Jan 2016, SRM University, Kattankulathur .
- Attended a “International conference on “Management Practices Beyond The Horizon”, on 07.03.15, D.G.Vaishnav college, Arumbakkam, Chennai.
- Attended a’ International Conference on Frontier Areas of Physics”(INACFAP- 2014), organized by Department of Physics, SCSVMV University on 18th and 19th December 2014
- Attended a “ National Conference on Mathematical Techniques and its Applications (NCMTA 2014) conducted at SRM University, Kattankulathur during 6th and 7th of January 2014.
- Attended a “International Conference on Theoretical Computer Science –IC-TCS13” held at Loyola College, Chennai, during October 03-05,2013.
- Attended a National Conference on Network and Distributed Systems Security and organized by the department of Computer Science and Engineering, SCSVMV on 20.01.2011 and 21.01.2011.

QUALITY ENRICHMENT PROGRAMME

- Participated in the Quality Enrichment Programme-III (QEP-III) at SCSVMV University, on 20.09.2017.
- Participated in the Quality Enrichment Programme-II (QEP-II) at SCSVMV University, on 20.09.2016.
- Participated in the Quality Enrichment Programme-I (QEP-2016) on 24.03.2016 Department of Mathematics, SCSVMV University

WORLD & NATIONAL MATHEMATICS DAY

- Participated in the World Mathematics Day-Helix’ 18 and a lecture on ‘The Power of Mathematics’ organised by Department of Mathematics, SCSVMV on 28.03.2018.
- Participated in the National Mathematics Day celebration and a lecture on “Applications of Mathematics to computer vision and machine Learning” organised by Department of Science and Humanities, SCSVMV on

28.01.2013.

- Participated in the National Mathematics Day celebration and a lecture on *Elliptic Curve Cryptography* organized by Department of Science and Humanities, SCSVMV on 29.02.2012.

BEST TEACHER AWARD

- Received Winning **Global Teacher Award 2019** from AKS worldwide PVT.LTD on 15.09.2019, New Delhi.
- Received Best Teacher Award on 05.09.2019, SCSVMV.
- Received Outstanding Women in Science Award from Center for Advanced Research and Design, Venus International Foundation: Estd.u/s 3 of the Indian Trusts Act,1882 ISO 9001: 2008 Certified.- 2.3.19
- Received Best Teacher Award in the Country, Glacier Journal Research Foundation, B-1001,Suryoday Tower, Sathadhar X Road, Nr.H.P.Petrol Pump, Sola Road, Opp.Brts Bus Stop, Ahmedabad-380061 (Gujarat) - 22.12.2018
- Received more than 300 API Score award on 05.09.2017, SCSVMV.
- Received Rs 1,000/- for the best link between Jaina logic and Multi-valued logic on 11.05.2017.
- Received Best Teacher Award on 26.09.2016, SCSVMV University.

LECTURES

- Attended the lecture, “Applications of Graph theory in our practical life” on 06.04.2017, Department of Mathematics, SCSVMV University.

ONLINE COURSE :

- Completed Microsoft Excel 2010 – Revised 2017 on 02 sep, 2018 with 85%
- Completed Advanced Mathematics 1 on 02 sep, 2018 with 80%
- Received **Elite+ Silver** in NPTEL online certification, (Funded by the Ministry of HRD, Govt. of India) completing Higher Engineering Mathematics with 76%, Duration : July-Oct, 2019

OTHERS

- Member, Thesis scrutinizer.
- Reviewer of International Conference on New Trends in Mathematical Modeling with Applications ICNTMMA 2019, 29 & 30 July 2019, Organized by PG and Research Department of Mathematics, Sri Vidya Mandir Arts & Science College, Uthangarai, Tamilnadu, India.
- Question paper setter for odd semester 2019, Satyabama , Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Chennai.
- Member, Main library and Dept.of ECE Stock (Book)verification ([University](#))

level)

- Reviewer of ICACM Aug 10, 2018, Erode Arts and Science College.
- Deputy Warden ,Girls Hostels, SCSVMV from 12.06.2018. (University level)
- Stock verification,Medical centre, Aug 2018. (University level)
- Answer script Evaluator for PG/UG, Sankara Arts and Science college on 23&24.5.18.
- Reception committee for UGC visited on 15,16&17.02.2018.
- Answer script Evaluator for PG/UG, Sankara Arts and Science college on 15,16.12.2017
- Acted as a Exam cell member for University examinations Nov/Dec 2017, conducted by Physics dept.
- Co-ordinator & Time table in-charge for I B.Sc Mathematics(II sem)Dec 2017 to April 2018.
- Stage & Reception committee, Fine arts & Humanities Programme, November 13-15, 2017.
- Internal member, DC meeting 26.07.2017 Rao sir's student Ms.Kanchana
- Member, Internal Complaint Committee(ICC), (University level)
- Co-ordinator, IQAC, 2017-18 (Dept.level)
- Co-ordinator of Department Activity : 2017-18 (Dept.level)
- Co-ordinator for council 2016-17
- Reception committee for NAAC visited on 8,9,10.5.2017
- Acted as Co-ordinator for Spardha 2017.
- Prepared question bank for All India Sankara Engineering Entrance Examination 2017.
- Invigilator, TNPSC EXAM DUTY 19.02.2017 by Mrs.N.Saradha
- Member, University Anti Ragging Squad.
- Hall arrangement for International seminar on Fluid Mechanics, Department of Mathematics, SCSVMV University on 06.03.2017
- Brochure and Material for Matlab for Researches, Department of Mathematics, SCSVMV University on 12.02.2017
- Organiser Secretary of National Seminar on Emerging Trends in Pure and Applied Mathematics Department of Mathematics, SCSVMV University on 24.02.2017
- Co-ordinated for "Short film" for National Mathematics Day on 28.09.2016
- Member, Invitation committee –One day career guidance programme for students of faculty of science" Department of Mathematics, SCSVMV University on 26.09.2016
- Co-ordinated the Viva voce examination of M.Phil, on 01.07.2016.
- Prepared Chandrika Report from Jan to June 2016
- Research co-ordinator from 2016 to till date.
- Department Profile 2015-16, it is done on 2016-17
- Member, Invitation committee - International seminar on "Power sums and Univariate distributions" Department of Mathematics, SCSVMV University on 02.09.2016
- Member, M.Phil Admission committee 2017-18,2016-17,2015-16,2014-

- 15,2013-14,2012-13.
- TNPSC EXAM DUTY 24.01.2016, 8.11.2015 by Mr. Rao.
 - Prepared the question bank for entrance examination for admissions (2016-17).
 - Acted as co-ordinator for showing the film HARIDAS as per the directions of chief Education officer of Kanchipuram District for B.Sc (Maths students -2015-16).
 - Member, stock verification 2016 - purchase section, Finance section and Works section, SCSVMV University.
 - Certificate committee in “ Workshop on Math with Matlab for Researches ” on 7th February 2016, organized by the Department of Mathematics, SCSVMV University , Enathur, Kanchipuram.
 - Certificate committee in 19th convocation (25.10.2015),SCSVMV University.
 - Member in Workshop on Matlab and its Applications on 12th October 2015,organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.
 - Initiated to take care for Ramanujan Museum and Educational centre visit for B.Sc & M.Sc (Mathematics) students on 12.09.2015(Saturday).
 - B.Sc Co-ordinator & Time table in-charge for B.Sc(Mathematics)-July-2015.
 - International Women’s Day -2015 ,won: i) First prize for Art from wasteeii) First prize for cooking without fire iii) Second prize for Rangoli iv) Second prize for Budget
 - Certificate committee - National Workshop on Matlab Programming on 28th November 2014,organized by the Department of Mathematics, SCSVMV University, Enathur, Kanchipuram.
 - Deputy Warden ,Bangaru Amman Hostels, SCSVMV from 10.10.2014.
 - Reception Committee – MATLAB and its Application on 30.08.2013 & 06.09.2013.
 - AAVISHKAR’13 Judge for Cultural Events- 24.09.2013-Dept.of EIE.
 - APOGEE –Feb 6 & 7 , 2013 Judge for Mehandhi ,Vegetable carving and Rangoli.
 - Discipline & class co-ordinated for I-Year C sec
 - Mentor : 2012 to till date
 - Reception committee in NAAC visit
 - Convener in National Mathematics Day Celebration-2012
 - Hospitality committee in UGC Committee visit 27th to 29th October 2009.
 - Chess organizer in SPARDHA : 2011 - 12 ; 2012 - 13.
 - Certificate committee in TALENT FEST : 2012
 - Member in Board of Studies –14.12.2010, 13.08.2012, 30.01.2013.

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