



## A.Gayathri – Personal Profile

1. Name : **Dr.A.GAYATHRI**
2. Designation : Assistant Professor (Stage-II)
3. Date of Joining (SCSVMV) : From 03.09.2010 to 01.05.2013  
From 21.07.2014 to till now
4. Total Teaching Experience : 16 years
  - In SCSVMV : 13 years
  - TNAU : 03 years
5. Specialization : Applied Mathematics
6. Awards received :
  1. Silver Medalist (M.Phil - 2004)
  2. Best Paper Award (ICFM2017)
  3. Best Thesis Award (Indo-Thai Award 2019)
  4. Women Researcher Award (2019)
  5. International Young Women Researcher Award(2021)
  6. International Young Researcher Award(2023)
7. M.Phil. & M.Sc. Guidance
  - No. of Students : 07(Completed)
  - Area of Research : Mathematical Physics
8. Experience
  - UG : 16 years
  - PG : 13 years
9. No. of Publications : 14
10. Paper presented : 14 (all International)
11. Workshops / Conferences / Seminars attended : 48
12. Online Course : Completed(NPTEL)-3, Coursera-2, Pursuing-1
13. Life Membership
  - The Association of Mathematics Teachers of India
  - Association of Mathematics for women
14. Email ID : [ag@kanchiuniv.ac.in](mailto:ag@kanchiuniv.ac.in)

### **Academic Experience:**

- Working as Assistant Professor of Mathematics at Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya [SCSVMV], Enathur, Kanchipuram since **July 2014**.
- Worked as Assistant Professor of Mathematics at Ramco Institute of Technology [RIT], Rajapalayam since **June 2013-December 2013**
- Worked as **Assistant Professor in Mathematics** at Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya [SCSVMV], Enathur, Kanchipuram, from **Sep 2010 to May 2013**.
- Senior Research Fellow in **Govt. Agricultural College and Research Institute**, Killikulam, Vallanad – 628 252, Tuticorin District under Tamil Nadu Agricultural University from **Sep 2005 to Apr 2008**. (contract position)

### **Academic Details:**

| <b>S.No.</b> | <b>Degree</b> | <b>Name of the Institution</b>  | <b>Year of passing</b> | <b>Class</b> |
|--------------|---------------|---|------------------------|--------------|
| 1.           | Ph.D.         | Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, SCSVMV Deemed University, Kanchipuram-631561 | 2017                   | First        |
| 2.           | M.Phil        | Madurai Kamaraj University<br><i>[Silver medal awardee]</i>   | 2004                   | First        |
| 3.           | M.Sc.         | Madurai Kamaraj University  | 2003                   | First        |
| 4.           | B.Sc.         | Madurai Kamaraj University  | 2001                   | First        |

## Subjects Handled

| Subject   | Course   |
|---|--|
| Engineering Mathematics I                           | B.E/ B.Tech.<br>(All Branches)   |
| Engineering Mathematics II                          |  |
| Engineering Mathematics III                         |  |
| Engineering Mathematics IV                          |  |
| Discrete Mathematics                                |  |
| Computer Associated Numerical Methods               | I year MCA(Int)/B.Sc. (CS)   |
| Resource Management Technique                       | IV-year CSE 'C'  |
| Applied Mathematics for Electronics Engg-III        | III-year EEE   |
| Allied Mathematics-I & II                           | I year B.Sc(PHY/CHE)   |
| Applied Mathematics for Civil Engineers-II          | B.E- Civil (PT)-I year   |
| Managerial Decision Making                          | I year M.Sc Mathematics  |
| Applied Mathematics for Mechanical Engineers- III   | III year B.E Mech 'C'  |
| Applied Mathematics for instrumentation Engineers-I | II year EIE & Mechatronics   |
| Vector Calculus and Fourier Series                  | I-year B.Sc Mathematics  |
| Applied Mathematics for Civil Engineers-III         | B.E.- Civil (PT)-II year   |
| Basic Mathematics for Engineers-I & II              | I-year B.E/B.Tech  |
| Allied Mathematics-I & II                           | II-year B.Sc. Chy  |
| Partial Differential Equations & Transforms         | II-year B.Sc. Mathematics,<br>II-year M.Sc. Mathematics                                  |
| Operations Research                                 | I-year M.Sc. Mathematics &<br>III-year BE-EIE &<br>Mechatronics<br>IV-year BE Mechanical |
| Numerical Methods                                   | II-year B.Sc. Mathematics  |
| Mathematical Logic & Combinatorics                  | II-year BE-CSE   |
| Partial Differential Equations                      | I year M.Sc. Mathematics   |

## Training programme attended:

- Attended “**Teachers Enrichment Workshop TEW 2018**” organized by National Centre for Mathematics, A Joint Centre for IIT Bombay & TIFR, Mumbai, between 21-26, May 2018.
- Attended Faculty Development Programme on the “**Application of Research in Contemporary Management & Social Sciences**” on 5-11-2011 organized by Dept. of Management studies, SCSVMV Deemed University
- Attended Mathematics Teachers’ Training programme [MTTP] organized by the **National Board of Higher Mathematics**, Department of Atomic Energy, Mumbai, at Thiagaraja Engg. College, Madurai from 3-8, January 2011.

## **Publications:**

1. Gayathri A, et al “Comparative Evaluation of Viscosity, Density and Ultrasonic Velocity Using Deviation Modelling for Ethyl-Alcohol Based Binary Mixtures”, . *Appl. Sci.* 2023, 13, 7475. <https://doi.org/10.3390/app13137475> .
2. Gayathri.A, et al, “Acoustic, Rheological and Optical Properties of Binary Mixtures of Aqueous Solutions of PEG 200—A Comparative Analysis”, *Advances in Materials and Manufacturing Engineering*, (2021), 239-244.
3. Gayathri.A, Venugopal.T & Venkatramanan.K, “Redlich-Kister Coefficients on the Analysis of Physico-Chemical Characteristics of Functional Polymers”, *Science direct, Materials Today: Proceedings*, 17 (2019), 2083-2087.
4. Gayathri.A , Venugopal.T & Venkatramanan.K, “A Comparative Study of Experimental and Theoretical Ultrasonic Velocity of Binary Liquid Mixtures Using Mathematical Methods”, *International Journal of Engineering & Technology*, 7 (4.10) (2018) 602-604
5. Gayathri.A et al, “A study on Thermodynamic, Acoustic and Elastic properties of aqueous solutions of Hydroxyethyl Cellulose”, *IOP Conf. Series: Materials Science and Engineering* 390, (2018) 032-038.
6. Gayathri.A et al, “A comparative study of experimental and theoretical refractive index of binary liquid mixtures using mathematical methods”, *IOP Conf. Series: Materials Science and Engineering* 390, (2018) 112-116.
7. Gayathri.A and Venugopal.T, “A Study on Higher order triangular sum numbers of Polyhedral and Graceful Graphs”, *Mathematical Sciences International Research Journal, IMRF*.
8. Gayathri.A and Venugopal.T, “A numerical study of comparative analysis of experimental and theoretical viscosities of binary mixtures of few polymer systems”, *Mathematical Sciences International Research Journal, IMRF*.
9. Gayathri.A et al, “Mathematical and Experimental Analysis of Ultrasound Velocity and Refractive Index in Binary Mixtures of Pharmaceutically Important Polymer— PEG 600”, *Recent Trends in Materials Science and Applications, Springer Proceedings in Physics*, Vol. 189, June 2017, pp 709-722.
10. Gayathri.A and Venugopal.T, “Numerical, Acoustic and Molecular Interaction Studies of Holy Liquids”, *International Journal of Current Research and Review*”, ISSN: 2231- 2196,

Vol.9(10), May 2017, pp137-140.

11. Gayathri.A and Venugopal.T, “Mathematical Analysis of Mechanical Properties of Idol Making Stones”, Global Journal of Pure and Applied Mathematics, Research India Publications, ISSN 0973-1768, Vol.13(2), pp683-690, March 2017.
12. Gayathri.A and Venugopal.T, “Numerical and Experimental Analysis of Optical Property of Polymers (PEG & PPG)”, International Journal of Mathematical Trends and Technology, Seventh sense research group, ISSN 2231-5373, Vol.34(3), pp 126-129, June 2016.
13. Gayathri.A and Venugopal.T, “A Comparative Analysis of Ultrasound Velocity in Binary Liquid Systems of PPG by Mathematical and Experimental Methods”, Physics Procedia Elsevier publication, ISSN No. 1875-3892, Vol.70 (C), pp241-244, Sep2015.
14. Gayathri.A and Venugopal.T, “On the Analysis of speed of acoustic waves in binary liquid systems through mathematical and experimental methods”, Indian Journal of Science, ISSN No. 2319 – 7730, March 2014, Vol.13(36) pp1-4.

#### **Workshop/Symposia/Seminars Participation**

1. Attended “One-day National Workshop on Outcome Based Education”, organized by the Department of Management Studies, SCSVMV, on March 12, 2024.
2. Attended International Conference on Recent Trends on Applied Mathematics (ICRTAM 2023), organized by the Department of Mathematics, Loyola College, Chennai during Feb 24-25, 2023.
3. Attended International Conference on Advanced Materials (ICAM 2023), organized by Department of Chemistry, Women’s Christian College, Chennai, during Feb 21-22, 2023.
4. Attended “National Level Webinar on account of Gandhi Jayanti on Education For New World Order-In Gandhi’s Perspectives”, Organized By V.O.C. College Of Education, Thoothukudi in Collaboration With Gandhi Study Centre, Chennai on 01st Oct 2020.
5. Attended “National level webinar on awareness on national educational policy 2020”, organized by Unnat Bharat Abhiyan [UBA], on September 27, 2020
6. Attended Online FDP on “Covid-19 Dataset Analysis using Pandas in Python”, organized by Department of CSE and H&S on 5th and 6th June 2020.
7. Completed and Qualified the Exam of “One Week STTP on Statistical Analysis in SPSS Software (online mode)” from 01 June, 2020 to 06 June, 2020 organized by REST Society for

Research International (RSRI), Krishnagiri, Tamil Nadu, India.

8. Attended “Online FDP on MA8551 Algebra and Number theory”, organized by the Department of Mathematics, Ramco Institute of Technology, Rajapalayam on 26th and 27th of May 2020.
9. Attended “ Online webinar on Assessment for online learning”, organized by Cambridge Assessment English, during 19 th May 2020.
10. Attended “National Workshop on Basics of Vedic Mathematics”, organized by the department of Mathematics, SCSVMV, from September 03-05, 2019.
11. Attended “International Conference on Pure and Applied Mathematics”, organized by the department of Mathematics, SCSVMV, during February 17-19, 2019.
12. Attended “International Seminar on Astronomical Mathematics”, organized by the department of Mathematics, SCSVMV, on November 30, 2018.
13. Attended “Teachers Enrichment Workshop”, organized by National Centre for Mathematics, A Joint centre of IIT Bombay & TIFR, Mumbai, during May 21-26, 2018.
14. Attended “Workshop on Electronic circuits and projects”, organized by the department of Physics, SCSVMV, on April 02, 2018.
15. Attended “One day Quality Enrichment Programme (QEP-III)”, organized by the department of Mathematics, SCSVMV, on Oct 27, 2017.
16. Attended “International Conference on Material Science (I<sup>st</sup>MRS 2017)”, organized by First International Conference on Material Science Society, Empress Hotel, Thailand, from October 31-November 03, 2017.
17. Attended “International Conference on Functional Materials (ICFM 2017)”, organized by the department of Physics, SCSVMV, on March 2-3, 2017.
18. Attended “National Seminar on emerging trends in pure and applied mathematics (NSETPAM 2017)”, organized by the department of Mathematics, SCSVMV, on Feb 24, 2017.
19. Attended International Conference on Applicable Mathematics (ICAM 2016)”, organized by the department of mathematics, Stella Maris, Chennai, during Nov 30 – Dec 01, 2016.
20. Attended “International Workshop on Functional Materials (IWFM 2016)”, organized by the department of Physics, SCSVMV, on Nov 29, 2016.
21. Attended “Fourth National Workshop on instrumentation Techniques in Physics (PINTECH’15)”, organized by the department of Physics, SCSVMV, on Oct 26, 2016.

22. Attended “One day Quality Enrichment Programme (QEP-II)”, organized by the department of Mathematics, SCSVMV, on Sep 20,2016.
23. Attended “National Seminar on Recent Advances in Physics-2016”, organized by the department of Physics, SCSVMV, on Sep 09,2016.
24. Attended “International Seminar on Power Sums and Uni-variate Distributions”, organized by the department of Mathematics, SCSVMV, on Sep 02,2016.
25. Attended “Seminar on Effective Teaching and Learning Practices”, organized by the department of Computer Science and Applications, SCSVMV, on Aug 19,2016.
26. Attended “One day Quality Enrichment Programme (QEP-I)”, organized by the department of Mathematics, SCSVMV, during Mar 24,2016.
27. Attended “National level Seminar on Research Techniques”, organized by the department of Electronics and Communication Engineering, SCSVMV, on Feb 26,2016.
28. Attended Seminar on “Simulation of Cloud Computing Protocols”, organized by the department of Mathematics, SCSVMV, during Feb 25,2016.
29. Attended “National Workshop on Effective Teaching & Learning Methodology”, organized by the department of Electronics and Communication Engineering, SCSVMV, on Feb 18,2016.
30. Attended “Workshop on Math with MATLAB for Researchers”, organized by the department of Mathematics, SCSVMV, on Feb 07,2016.
31. Attended “Workshop on Math with Open Source Software GeoGebra & Winplot”, organized by the department of Mathematics, SCSVMV, on Feb 06,2016.
32. Attended “Seminar on Cloud Computing and Big Data Analytics”, organized by the department of Mathematics, SCSVMV, on Jan 29,2016.
33. Attended “National workshop on role of Nuclear and Radiation chemistry in Energy Generation (RNRCEG-2016)”, organized by the department of chemistry, SCSVMV, during Jan 27-28,2016.
34. Attended “International conference on Mathematical Computer Engineering (ICMCE-2015)”, organized by the school of Advanced sciences, VIT, Chennai, during Dec 14-15, 2015.
35. Attended “Fourth National Workshop on instrumentation Techniques in Physics (PINTECH’15)”, organized by the department of Physics, SCSVMV, on Nov 06, 2015.
36. Attended “National Workshop on Math with open source software (NWMOSS 2015)”,

- organized by the department of Mathematics, SCSVMV, during Sep 03-04,2015.
37. Attended “National Workshop on Basics of MATLAB”, organized by the department of Physics, SCSVMV, on Sep 19,2015.
  38. Attended “Workshop on MATLAB and its applications”, organized by the department of Mathematics, SCSVMV, on Oct 12,2015.
  39. Attended “One Day User Awareness Programme on Shodhganga and Anti-Plagiarism Software”, organized by SCSVMV Library, on March 26,2015.
  40. Attended “International Conference on Frontier Areas of Physics” organized by the department of Physics, SCSVMV, during December 18-19,2014.
  41. Attended “Third National Workshop on instrumentation Techniques in Physics (PINTECH’14)”, organized by the department of Physics, SCSVMV, on Oct 31, 2014.
  42. Attended “National Workshop on MATLAB Programming”, organized by the department of Mathematics, SCSVMV, on Nov 28,2014.
  43. Attended “National Workshop on basics of MATLAB, organized by the department of Physics, SCSVMV, on Oct 10,2014.
  44. Attended “Workshop on Linear Programming with Excel”, organized by department of Science and Humanities, SCSVMV, on April 23-24,2012.
  45. Attended a National workshop on “Practical Mathematics and Statistics” organized by Sri Sankara Arts and Science College, during March 07-08,2012.
  46. Attended lecture on “Elliptic Curve Cryptography”, organized by the department of Science and Humanities, SCSVMV, on February 29,2012.
  47. Attended ‘National Workshop on Modern Techniques in Analytical Chemistry’ organized by the department of chemistry, SCSVMV, during February 10-11,2011.
  48. Attended National Conference on “Mathematics in Ancient Sanskrit Works” organized by the department of mathematics, Madura College, during December 28-29,2006.

### **Software – Training programme conducted**

1. Conducted Training Programme on **MEGASTAT** to M.Sc., (Mathematics) students for perform statistical operations with datasets as part of the curriculum.
2. Conducted Training Programme on **Excel Solver** to solve linear programming problems for M.Sc., students as part of the curriculum.



### **Acted as Resource Person:**

1. Acted as a Resource person in the “**Faculty Enrichment Programme for Sankara School Teachers**” and delivered a lecture on “**Partial Differential Equations**” organized by the Department of Mathematics, during May 16-18, 2024.
2. Acted as a Chief Guest and delivered a lecture on “Introduction to Vedic Mathematics” for the program “Srinivasa Ramanujan Day celebration” organized by S.S.K.V. Group of Schools, Kanchipuram on January 10, 2024.
3. Acted as a Resource person in the “***Introduction on Vedic Mathematics-The fastest Ancient Indian Calculating System***”, organized by Internal Quality Assurance Cell (IQAC), SCSVMV, on June 10, 2023.
4. Acted as a Resource person in the “***Two-week Workshop on Vedic Mathematics***”, organized by the Department of Mathematics, SCSVMV, during July 11-22, 2022.
5. Acted as a chief guest and mentor for the three - day collaborative peer group training programme on ‘***solving problems of statistics with R-Programming and Operations Research with excel solver***’ jointly organized by the department of mathematics, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi & V.V.Vanniaperumal College for women, Virudhunagar (Autonomous), from June 01 – 03, 2021.
6. Acted as a resource person in the ‘***Faculty Development Programme on Computational Tools: Megastat & Solver***’, organized by the Department of Mathematics, SCSVMV, during December 19-20, 2019.
7. Acted as a Resource person in the “***National Workshop on MatLab in Applied Sciences***” organized by the department of Mathematics, SCSVMV, during September 15-16, 2017.
8. Assisted the resource person in the “***Workshop on Math with Open Source Software GeoGebra & Winplot***”, organized by the department of Mathematics, SCSVMV, on Feb 06, 2016.
9. Acted as a resource person in the ‘***National Workshop on Math with open source software (Megastat)***’, organized by the Department of Mathematics, SCSVMV, during September 3-4, 2015.

### **Program Organized:**

1. Organized “National Webinar on Tricks using Vedic Mathematics” online on June 9<sup>th</sup> 2024.
2. Organized “International Mathematics Day (IMD 2023)”, on March 27, 2023.
3. Organized “International Seminar on Astronomical Mathematics”, on Nov 30, 2018.
4. Organized “International Conference on Pure and Applied Mathematics- ICPAM 2018”, during Feb 19-20,2018.
5. Organized “Workshop on Matlab for Researchers”, on Feb 12,2017.

### **Online Certificate:**

1. Ongoing an online 3-credit course titled “**Advanced Calculus for Engineers**” authorized by **Indian Institute of Technology, Kharagpur**, and offered through NPTEL(SWAYAM) during Jul-Oct 2024 [Three Month Course].
2. Completed an online 4-credit course titled “**Descriptive Statistics**” authorized by the **University of Mysore** and offered through NPTEL (SWAYAM) during Jan - May 2023 [Five Month Course]
3. Completed an online 4-credit course titled “**Partial Differential Equations**” authorized by **Jadavpur University** and offered through NPTEL (SWAYAM) during July - October 2022[Three month course]
4. Completed an online 3-credit course titled “**Engineering Mathematics-I**” authorized by **Indian Institute of Technology, Kharagpur**, and offered through NPTEL(SWAYAM) during Jul-Oct 2021 [Three Month Course].
5. Completed a Refresher course titled “**Refresher Course in Mathematics**” authorized by **Teaching Learning Centre, Ramanujan college, University of Delhi**, and offered Ministry of Education, India, during Aug-Sep2021 [Two week Course].
6. Completed an online non-credit course titled “**Differential equations for engineers**” authorized by **The Hong Kong University of Science and Technology**, and offered through COURSERA during July 2021 [One Month Course].
7. Completed an online non-credit course titled “**Bayesian Statistics**” authorized by

**University of California**, Santa Cruz and offered through COURSERA during November 2016 [One Month Course].

### **Papers Presented in conferences**

1. Presented a paper titled “Determination of Physico-Chemical characteristics of Organic liquid using Redlich-Kister Co-efficient” in International Conference on Recent Trends on Applied Mathematics (ICRTAM 2023), organized by the Department of Mathematics, Loyola College, Chennai during Feb 24-25, 2023.
2. Presented a paper titled “Theoretical and Experimental expectations of Viscosity and Ultrasonic velocity in binary liquid mixtures of Cyclohexane with Isopropyl Acetate or Isobutyl acetate - A Comparative Study” in International Conference on Advanced Materials (ICAM 2023), organized by Department of Chemistry, Women’s Christian College, Chennai, during Feb 21-22, 2023.
3. Presented a paper titled “An Analysis of Wiener Index of Connected Graphs” in International conference on Mathematical Computer Engineering (ICMCE-2020) organized by Department of Mathematics, VIT University, during Feb 21-22, 2020.
4. Presented a paper titled “An analysis of Prime Labeling of some Graphs” in the International Conference on Pure & Applied Mathematics organized by the Department of Mathematics, SCSVMV during February 17-19, 2019.
5. Presented a paper titled “The Wiener index of complete and connected graphs” in International Conference on Pure & Applied Mathematics organized by the Department of Mathematics, SCSVMV during February 17-19, 2019.
6. Presented a paper titled “A comparative study of experimental and theoretical ultrasonic velocity of binary liquid mixtures using mathematical methods”, in International Seminar on Emerging Trends in Mathematics organized by the Department of Mathematics, School of Advanced Sciences, VIT Vellore during March 29-31, 2018 at VIT Vellore.
7. Presented a paper titled “A Study on Higher order triangular sum numbers of Polyhedral and Graceful Graphs”, in International Conference on Pure and Applied Mathematics ICPAM 2018, organized by the department of Mathematics, SCSVMV, during February 19-20, 2018.
8. Presented a paper titled “A numerical study of comparative analysis of experimental and theoretical viscosities of binary mixtures of few polymer systems”, in the International Conference on Pure and Applied Mathematics ICPAM 2018, organized by the department of

Mathematics, SCSVMV, during February 19-20,2018.

9. Presented a paper titled “Estimation of Redlich-Kister Coefficients on the analysis of functional Polymers” in International Conference on Material Science (MRS 2017) organized by First International Conference on Material Science Society, Empress Hotel, Thailand, during October 31-November 03,2017.
10. Presented a paper titled “Numerical, acoustic and molecular interaction studies of Holy liquids”, in International conference on Functional Materials (ICFM 2017) organized by department of Physics, SCSVMV University, during March 2-3,2017.
11. Presented a paper titled “Molecular interaction analysis of few Holy liquids using acoustic waves”, in International conference on Applicable Mathematics (ICAM-2016) organized by Department of Mathematics, Stella Maris College, Chennai, during Nov 30-Dec 01, 2016.
12. Presented a paper titled “Mathematical Analysis of Mechanical Properties of Idol Making Stones”, in International conference on Mathematical Computer Engineering (ICMCE- 2015) organized by Department of Mathematics, VIT University, during Dec 18-19, 2015.
13. Presented a paper titled “A Comparative Analysis of Ultrasound Velocity in Binary Liquid Systems of PPG by Mathematical and Experimental Methods”, in International Congress on Ultrasonics, Metz, France, during May 10-14,2015.
14. Presented a paper titled “On the Analysis of speed of acoustic waves in binary liquid systems through mathematical and experimental methods”, organized by Department of Physics, SCSVMV University, during Dec 18-19,2014.

#### **Other responsibilities @ SCSVMV**

- Class coordinator (for B.E.2010-11,2011-12 & 2012-13 Batch Students).
- Mentor (for B.E., Engg.,B.Sc., & M.Sc., Mathematics students since 2010).
- Event organizer of Tarunyam2011.
- Member, Spardhaa [Annual Sportsmeet-2011].
- Member, VIP Hospitality committee, SCSVMV 15<sup>th</sup>&17<sup>th</sup>Convocation.
- Event organizer of Talent Fest2012.
- Registration committee of MatLabworkshop-2014.
- Event organizer of Tarunyam 2015 &2017.
- Member, VIP Hospitality Committee, SCSVMV 19,20, 21 & 22<sup>nd</sup>Convocations.
- Department Coordinator, COE section,2015-16

- Member, Department Library committee,2016-17
- Website coordinator, Dept. of Mathematics,2016-17.
- Member, TIF,UGC nodal 2016 & 2017
- Member, Anti-ragging Committee –2017
- Organizing Secretary, Workshop on MatLab for Researchers, Feb 2017
- Time-table Coordinator, e-varsity, Department of Mathematics – 2017.
- Organizing Secretary, International Conference on Pure & Applied Mathematics, Feb 2018.
- Organizing Secretary, International Seminar on Astronomical Mathematics, Nov 2018
- Internal Exam Coordinator, Department of Mathematics, 2018-19.
- Member, Ph.D thesis Scrutiny committee, SCSVMV.
- Member, BOS, Department of Mathematics, SCSVMV, 2022-24
- Member Examiner, NGP College of Arts and Science, Coimbatore, 2021 onwards

### **Teaching Manuals Prepared:**

- Lab Manual –Excel Solver
- Workshop Manual – Mega Stat
- Agricultural Statistics
- Mathematics for Agricultural Sciences
- Introduction to Computer Technology
- Computer Applications
- Communications and Information Technology

### **Book Prepared:**

- Complex Analysis - VP Publication - ISBN 978-81-958006-0-5

### **On going Project:**

- Working as **Co-Principal Investigator** of a two-year Project worth rupees 18 Lakhs on Indian Knowledge Systems through the Ministry of Education is titled “Teacher Training Centre - Yukti Prasarana Kendram - SCSVMV”, from August 2023.

### **Best practices**

1. Delivered a lecture on the topic “Introduction to Vedic Mathematics” at “UMA Matriculation Higher Secondary School, Kilambi, Kanchipuram on behalf of the department of Mathematics admission team, SCSVMV, on 20<sup>th</sup> January 2024.

2. Delivered a lecture on the topic “Introduction to Vedic Mathematics” in the reasearch colloquium organized by the department of Mathematics, SCSVMV during June 2023.
3. Delivered a lecture on the topic “Introduction to Python” in the reasearch colloquium organized by the department of Mathematics, SCSVMV during Sep 2022.
4. Delivered a lecture on the topic “Solving PERT & CPM using MS Excel” in the research colloquium organized by the department of Mathematics, SCSVMV during June 2021.
5. Prepared a course material for the paper titled on "Complex Analysis” for B.Sc., Mathematics students for their benefit during the academic year 2019-20.
6. Prepared a course material for the paper titled on "Partial Differential Equations” for M.Sc., Mathematics students for their benefit during the academic year 2018-19.
7. Delivered a lecture on the topic “Reduction of Partial Differential Equations in to its Canonical form” in the research colloquium organized by the department of Mathematics, SCSVMV during Oct 2019.
8. Prepared a course material for the paper titled on "Partial Differential Equations & Transform Techniques” for B.Sc., Mathematics students for their benefit during the academic year 2017-18.
9. Delivered a lecture on the topic “Introduction to Python” in the research colloquium organized by the department of Mathematics, SCSVMV during Aug 2018.
10. Handled aptitude class to third year B.E students to prepare for competitive examinations during 2018.
11. Prepared a course material for the paper titled on "Allied Mathematics-I” for B.Sc., Chemistry students for their benefit during the academic year 2015-16.
12. Prepared a course material for first year engineering students during the academic year 2014-15. (Topic:-Vector Integration.)
13. Delivered a lecture on the topic “Mathematical Analysis of Mechanical Properties of Idol Making Stones” in the research colloquium organized by the department of mathematics during 2016.
14. Delivered a lecture on the topic “Solving statistical problems using the software Megastat” in the research colloquium organized by department of Mathematics during the academic yea r2015.
15. Delivered a lecture on the topic “Application of Mathematics in Elevators using Boolean

Algebra” in the research colloquium organized by department of Mathematics during the academic year 2012.

16. Delivered a lecture on the topic “Application of Mathematics in printers" in the research colloquium organized by department of Mathematics during the academic year 2010.