Dr.S.SAGAYA ROSELINE

Associate Professor,
Department of Mathematics,
Bishop Heber College,
Tiruchirappalli - 17.

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Phone : 9791355192

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Qualification

Degree	Branch	Institution / University	Year of Passing
Ph.D.	MATHEMATICS	Bishop Heber College	2017
M.Phil.	MATHEMATICS	St Josephs College	2001
M.Sc.	MATHEMATICS	Seethalakshmi Ramasami College	2000
B.Sc.	MATHEMATICS	Holy Cross College	1998

Ph.D. Details

Title of Thesis

A STUDY ON GENERALIZED AND INTUITIONISTIC
FUZZY TRANSPORTATION AND ASSIGNMENT
PROBLEMS WITH NEW RANKING OF FUZZY
NUMBERS

Area of Specialization

FUZZY OPTIMIZATION

Research Supervisor
DR.E.C. HENRY AMIRTHARAJ

Research Centre
BISHOP HEBER COLLEGE

Year of Award
NOVEMBER 2017

Obtained Post Doctoral Fellowship :   **Agency**
Host Institution :

Cleared NET / SET :	Details	Year of Passing
SET	04170313	2012

Additional Qualification

Name of Course	Place of Study	Date	Duration
LATEX	BISHOP HEBER COLLEGE	2007	THREE MONTHS
Type writing -English- Junior grade	Technical Centre	January 1997	six months
Type writing -English- Senior grade	Technical Centre	July 1997	six months

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Work Experience

Name of Institution	Address of Institution	Designation	From	To
BISHOP HEBER COLLEGE	VAYALUR ROAD, TRICHY-17.	ASSOCIATE PROFESSOR	01-07-2002	TILL DATE
HOLY CROSS COLLEGE	TIRUCHIRAPPALLI-620002	LECURER	11/2000	3/2001

Teaching / Research Experience

U.G. : 20 years **P.G. :** 18 years 6 m **M.Phil.** 8 years **Ph.D.**

Research Guidance

U.G. : 7 years **P.G. :** 17 years **M.Phil. :** 5 years **Ph.D. :**

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7.	Research Projects	0
8.	Resource Person	0
9.	Consultancy	0
10.	Awards Recieved	0
11.	Patent	0
12.	Extension Activities Undertaken	0
13.	Professional Membership	0
14.	M.Phil. / Ph.D. Produced	5 / 0

CONFERENCES / WORKSHOPS / SEMINARS ATTENDED   -   46

1. International level Conference on **"*Heber International Conference on Applied Mathematics , Management, Computer Science and Statistics (HICAMMS 2022)*"** sponsored by PG and Research Department of Mathematics, Bishop Heber College, Trichy organized by PG and Research Department of Mathematics, Bishop Heber College, Trichy at BISHOP HEBER COLLEGE during 18/03/2022 to 18/03/2022.

2. National level Seminar on **"*ICT TOOLS FOR INTERACTIVE TEACHING AND BLENDED LEARNING*"** sponsored by Deanery of Academics, Bishop Heber College, Trichy organized by Deanery of Academics, Bishop Heber College, Trichy at BISHOP HEBER COLLEGE during 12/07/2021 to 19/07/2021.

3. Regional level Workshop on **"*ACADEMIC AND ADMINISTRATIVE AUDIT IN PURSUIT OF EXCELLENCE IN HIGHER EDUCATION*"** sponsored by UNITED BOARD organized by IQAC, Bishop Heber college, Trichy-17 at BISHOP HEBER COLLEGE during 24/06/2021 to 26/06/2021.

4. International level Conference on **"*Heber International Conference on Applied Mathematics (HICAM 2021)*"** sponsored by PG and Research Department of Mathematics, Bishop Heber College, Trichy organized by PG and Research Department of Mathematics, Bishop Heber College, Trichy at during 26/04/2021 to 26/04/2021.

5. National level Seminar on **"*Faculty Development programme on Mathematics in Machine Learning*"** sponsored by PG and Research Department of Mathematics organized by PG and Research Department of Mathematics at during 19/03/2021 to 20/03/2021.

6. International level Conference on **"*Virtual Heber International Conference on Applied Mathematics (V-HICAM 2020)*"** sponsored by PG and Research Department of Mathematics, Bishop Heber College, Trichy organized by PG and Research Department of Mathematics, Bishop Heber College, Trichy at during 07/11/2020 to 07/11/2020.

7. National level Workshop on **"*Workshop on E-Content development*"** sponsored by Deanery of Academics, Bishop Heber College, Trichy organized by Deanery of Academics, Bishop Heber College, Trichy at during 27/10/2020 to 02/11/2020.

8. National level Seminar on **"*Special lecture on Building character and competency through whole person education*"** sponsored by Internal Quality Assurance cell, Bishop Heber College, Trichy organized by Internal Quality Assurance cell, Bishop Heber College, Trichy at during 13/10/2020 to 13/10/2020.

9. National level Conference on **"*Recent Trends in Fuzzy Sets*"** sponsored by Department of Mathematics , Navarasam Arts and Science College for Women , Arachalur, Erode district, Tamilnadu organized by Department of Mathematics , Navarasam Arts and Science College for Women , Arachalur, Erode district, Tamilnadu at during 25/09/2020 to 25/09/2020.

10. International level Seminar on **"*Webinar on Online Research tools*"** sponsored by PG Department of Computer Science (shift II), Bishop Heber College, Trichy. organized by PG Department of Computer Science (shift II), Bishop Heber College, Trichy. at during 10/07/2020 to 10/07/2020.

11. Regional level Seminar on **"*One day webinar on Predatory journals – a growing threat for academicians*"** sponsored by PG Department of Computer Science (shift II), Bishop Heber College, Trichy. organized by PG Department of Computer Science (shift II), Bishop Heber College, Trichy. at during 04/07/2020 to 04/07/2020.

12. National level Seminar on **"*Webinar on Higher management techniques for business decision making*"** sponsored by Department of Mathematics , AnnaiVeilankanni's College for women and the Department of Science and Humanities , AnnaiVeilankanni's college of Engineering , Chennai organized by Department of Mathematics , AnnaiVeilankanni's College for women and the Department of Science and Humanities , AnnaiVeilankanni's college of Engineering , Chennai at during 22/06/2020 to 22/06/2020.

13. National level Seminar on **"*Webinar on Online content creation tools*"** sponsored by Department of Computer Science (Shift II), Bishop Heber college, Trichy-17 organized by Department of Computer Science (Shift II), Bishop Heber college, Trichy-17 at during 11/06/2020 to 11/06/2020.

14. National level Seminar on **"*Webinar on Impact of Pandemic on Global supply chain*"** sponsored by Department of Mathematics and Actuarial Science , Bishop Heber college, Trichy-17. organized by Department of Mathematics and Actuarial Science , Bishop Heber college, Trichy-17. at during 10/06/2020 to 10/06/2020.

15. National level Seminar on **"*Webinar on Decision Making with the Application of Data Mining*"** sponsored by K.Ramakrishnan College of Technology, Samayapuram, Trichy-62112, organized by K.Ramakrishnan College of Technology, Samayapuram, Trichy-62112, at during 05/06/2020 to 05/06/2020.

16. National level Seminar on **"*Webinar on Online teaching tools*"** sponsored by Department of Computer Science (Shift II), Bishop Heber college, Trichy-17 organized by Department of Computer Science (Shift II), Bishop Heber college, Trichy-17 at during 30/05/2020 to 30/05/2020.

17. National level Seminar on **"*Research Advances in Graph Theory*"** sponsored by Justice Basheer Ahmed Sayeed College For Women, Chennai – 600 018. organized by Justice Basheer Ahmed Sayeed College For Women, Chennai – 600 018. at during 28/05/2020 to 28/05/2020.

18. Regional level Seminar on **"*webinar on Unlocking Online Evaluation*"** sponsored by IQAC, Bishop Heber college, Trichy-17 organized by IQAC, Bishop Heber college, Trichy-17 at Bishop Heber college, Trichy-17 during 22/05/2020 to 22/05/2020.

19. National level Seminar on **"*webinar on Online Teaching : The New Norm*"** sponsored by IQAC, Bishop Heber college, Trichy-17 organized by IQAC, Bishop Heber college, Trichy-17 at during 21/05/2020 to 21/05/2020.

20. National level Seminar on **"*Webinar on Faculty Development Program*"** sponsored by North Storm Academy organized by North Storm Academy at during 13/05/2020 to 14/05/2020.

21. College level Workshop on **"*QUALITY TEACHING*"** sponsored by UGC organized by DEPARTMENT OF MATHEMATICS,BHC at BHC during 28/01/2019 to 28/01/2019.

22. College level Workshop on **"*EMOTIONAL INTELLIGENCE FOR TEACHERS*"** sponsored by UGC organized by DEPARTMENT OF MATHEMATICS,BHC at BHC during 25/01/2019 to 25/01/2019.

23. International level Conference on **"*APPLIED MATHEMATICS AND BIO-INSPIRED COMPUTATIONS*"** sponsored by CSIR organized by DEPARTMENT OF MATHEMATICS,BHC at BHC during 10/01/2019 to 11/01/2019.

24. College level Workshop on **"*EXAMINATIONS AND EVALUATION REFORMS*"** sponsored by INTERNAL QUALITY ASSURANCE CELL,BISHOP HEBER COLLEGE organized by INTERNAL QUALITY ASSURANCE CELL,BISHOP HEBER COLLEGE at BISHOP HEBER COLLEGE, TIRUCHIRAPPALLI during 10/03/2018 to 10/03/2018.

25. National level Conference on **"*RECENT TRENDS IN APPLIED MATHEMATICS*"** sponsored by PG AND RESEARCH DEPARTMENT OF MATHEMATICS, BISHOP HEBER COLLEGE, organized by PG AND RESEARCH DEPARTMENT OF MATHEMATICS, BISHOP HEBER COLLEGE, at BISHOP HEBER COLLEGE, TIRUCHIRAPPALLI during 02/03/2018 to 03/03/2018.

26. College level Orientation on **"*FACULTY EMPOWERMENT PROGRAMME*"** sponsored by IQAC, organized by IQAC, at BISHOP HEBER COLLEGE during 14/06/2017 to 14/06/2017.

27. National level Conference on **"*HEBER CONFERENCE ON COMPUTATIONAL TECHNIQUES-HCCT 2017*"** sponsored by DEPARTMENT OF MATHEMATICS, BISHOP HEBER COLLEGE organized by DEPARTMENT OF MATHEMATICS, BISHOP HEBER COLLEGE at BISHOP HEBER COLLEGE during 17/03/2017 to 17/03/2017.

28. College level Workshop on **"*ADVANCED MATHEMATICS*"** sponsored by DBT organized by DEPARTMENT OF MATHEMATICS, BISHOP HEBER COLLEGE at BISHOP HEBER COLLEGE during 07/03/2017 to 08/03/2017.

29. National level Conference on **"*EMERGING TRENDS IN MATHEMATICS AND MATHEMATICS EDUCATION*"** sponsored by NBHM organized by DEPARTMENT OF MATHEMATICS, MARIS STELLA COLLEGE at MARIS STELLA COLLEGE, VIJAYAWADA,ANDHRA PRADESH during 17/02/2017 to 18/02/2017.

30. College level Workshop on **"*CURRICULUM DESIGN AND EVALUATION TECHNIQUES*"** sponsored by DPT organized by BISHOP HEBER COLLEGE at BISHOP HEBER COLLEGE during 21/11/2016 to 22/11/2016.

31. College level Workshop on **"*Workshop on R Programming*"** sponsored by Department of Mathematics and IQAC organized by Department of Mathematics and IQAC at BISHOP HEBER COLLEGE during 02/04/2016 to 02/04/2016.

32. International level Workshop on **"*Multiple Criteria Decision Making (MCDM) under Fuzzy Environment and its solution procedures through Microsoft Excel*"** sponsored by Department of Mathematics, Bishop Heber College, Tiruchirappalli organized by Department of Mathematics, Bishop Heber College, Tiruchirappalli at Bishop Heber college, Trichy-17 during 09/04/2012 to 10/04/2012.

33. College level Workshop on **"*Capacity Building Programme*"** sponsored by IQAC, Bishop Heber College(Autonomous) organized by IQAC, Bishop Heber College(Autonomous) at Bishop Heber College(Autonomous), Tiruchirappalli during 25/02/2012 to 25/02/2012.

34. International level Conference on **"*Heber International Conference on "Applications of Mathematics and Statistics HICAMS – 2012*"** sponsored by PG and Research Department of Mathematics, Bishop Heber College, Tiruchirappalli organized by PG and Research Department of Mathematics, Bishop Heber College, Tiruchirappalli at Bishop Heber college, Trichy-17 during 05/01/2012 to 07/01/2012.

35. College level Workshop on **"*Examination Reforms and Evaluation*"** sponsored by the Internal Quality Assurance Cell organized by the Internal Quality Assurance Cell at Bishop Heber College(Autonomous), Tiruchirappalli during 11/03/2011 to 12/03/2011.

36. National level Conference on **"*Recent Trends in Fuzzy Mathematics*"** sponsored by Mathematics wing, Directorate of Distance Education, Annamalai University organized by Mathematics wing, Directorate of Distance Education, Annamalai University at during 14/06/2010 to 15/06/2010.

37. Regional level Workshop on **"*Fuzzy Logic and its Applications*"** sponsored by Department of Computer Science and Applications and Computer Society of India, Periyar Maniammai University, organized by Department of Computer Science and Applications and Computer Society of India, Periyar Maniammai University, at Thanjavur during 22/03/2010 to 22/03/2010.

38. College level Workshop on **"*Stochastic Differential Equations*"** sponsored by UGC govt. of India, organized by Department of Mathematics at Bishop Heber College(Autonomous), Tiruchirappalli during 23/01/2009 to 24/01/2009.

39. College level Workshop on **"*Training on MAT LAB*"** sponsored by UGC organized by Department of Mathematics and the Internet Quality Assurance Cell(IQAC) at Bishop Heber College(Autonomous), Tiruchirappalli during 22/02/2008 to 22/02/2008.

40. College level Workshop on **"*Training on MAT LAB*"** sponsored by UGC organized by Department of Mathematics and the Internet Quality Assurance Cell(IQAC) at Bishop Heber College(Autonomous), Tiruchirappalli during 22/02/2008 to 22/02/2008.

41. Regional level Seminar on **"*Faculty Development Programme - Training on MAT LAB*"** sponsored by Department of Mathematics and the Internet Quality Assurance Cell(IQAC) organized by Department of Mathematics and the Internet Quality Assurance Cell(IQAC) at Bishop Heber college, Trichy-17 during 25/10/2007 to 26/10/2007.

42. College level Workshop on **"*Power Point Presentaion and internet Usage*"** sponsored by Bishop Heber College(Autonomous) organized by Bishop Heber College(Autonomous) at Bishop Heber College(Autonomous), Tiruchirappalli during 23/04/2007 to 24/04/2007.

43. College level Workshop on **"*Exam Reforms in Question paper Setting*"** sponsored by Department of Mathematics Bishop Heber College(Autonomous) organized by Department of Mathematics Bishop Heber College(Autonomous) at Bishop Heber College(Autonomous), Tiruchirappalli during 07/03/2007 to 08/03/2007.

44. College level Workshop on **"curriculum Development and Evaluation"** sponsored by Academic Staff College, Bharathidasan university organized by Academic Staff College, Bharathidasan university at Bishop Heber College(Autonomous), Tiruchirappalli during 09/03/2006 to 11/03/2006.

45. National level Seminar on **"Modern Trends in Mathematics with Relevance to other Disciplines (MTMROD 2006)"** sponsored by Department of Mathematics Bishop Heber College(Autonomous) organized by Department of Mathematics Bishop Heber College(Autonomous) at Tiruchirappalli during 06/03/2006 to 07/03/2006.

46. National level Conference on **"Brainstorming Session on product Graphs and Their Applications(BSPGA 2005)"** sponsored by Department of Mathematics Bishop Heber College(Autonomous) organized by Department of Mathematics Bishop Heber College(Autonomous) at Tiruchirappalli during 21/02/2005 to 22/02/2005.

Research Papers Presented   -   8

1. **"Novel Strategy to solve transportation problems with Interval – valued trapezoidal fuzzy numbers"** in the International conference on *Heber International Conference on Applied Mathematics (HICAM -2021* sponsored by , organized by PG and Research Department of Mathematics, Bishop Heber College, Tiruchirappalli at online during 26/04/2021 to 26/04/2021.

2. **"STRATEGY TO SOLVE INSTUITIONISTIC FUZZY ASSIGNMENT PROBLEM WITH RANKING OF INTUITIONISTIC FUZZY NUMBERS"** in the National conference on *RECENT TRENDS IN APPLIED MATHEMATICS* sponsored by , organized by PG AND RESEARCH DEPARTMENT OF MATHEMATICS , BISHOP HEBER COLLEGE at BISHOP HEBER COLLEGE during 02/03/2018 to 03/03/2018.

3. **"HEURISTIC APPROACH TO INTUITIONISTIC FUZZY TRANSPORTATION PROBLEMS"** in the National conference on *HEBER CONFERENCE ON COMPUTATIONAL TECHNIQUES-HCCT 2017* sponsored by , organized by DEPARTMENT OF MATHEMATICS, BISHOP HEBER COLLEGE at BISHOP HEBER COLLEGE during 17/03/2017 to 01/01/1900.

4. **"Heuristic Approach to Generalized Fuzzy Transportation problems"** in the National conference on *National conference on Emerging trends in Mathematics and Mathematics Education* sponsored by NBHM, organized by Department of Mathematics, Maris Stella College at Vijayawada, Andhra Pradesh. at Department of Mathematics, Maris Stella College at Vijayawada, Andhra Pradesh. during 17/02/2017 to 18/02/2017.

5. **"Fuzzy Hungarian Method for Solving Assignment Problem with Fuzzy costs"** in the International conference on *Heber International Conference on Applications of Mathematics and Statistics, ?icams-2012* sponsored by , organized by PG and Research Department of Mathematics, Bishop Heber College, Tiruchirappalli at during 05/01/2012 to 07/01/2012.

6. **"Fuzzy LPP with Triangular Fuzzy Coefficients"** in the National conference on *Recent Trends in Fuzzy Sets* sponsored by , organized by Department of Mathematics , Navarasam Arts and Science College for Women at Arachalur, Erode district, Tamilnadu o during 25/09/2010 to 25/09/2010.

7. **"A New Method for Solving Fuzzy Linear Programming with TORA"** in the International conference on *International Conference on "Computers, Communication and Intelligence ICCCI '10* sponsored by , organized by Velammal College of Engineering and Technology, Viraganoor, at Madurai- 625009 during 22/07/2010 to 23/07/2010.

8. **"Solving Fuzzy LPP using a – cut and ranking function"** in the National conference on *Recent Trends in Fuzzy Mathematics* sponsored by , organized by Mathematics wing, Directorate of Distance Education, Annamalai University at Annamalai University during 14/06/2010 to 15/06/2010.

Publication in Journals   -   21

1. **"Novel strategy to solve transportation problems with interval - valued trapezoidal fuzzy numbers"** published in International Journal of Aquatic Science (PEER REVIEW) Vol. 12, Issue No. 2008- 8019, June 2021 **ISSN :** 2008- 8019.

2. **"Method to solve fuzzy transportation problem with LR flat fuzzy numbers"** published in The International journal of analytical and experimental modal analysis (PEER REVIEW) Vol. XII, Issue No. 0886- 9367, September 2020 **ISSN :** 0886- 9367.

3. **"Method to solve fuzzy transportation problem with LR flat fuzzy numbers"** published in The International journal of analytical and experimental modal analysis (PEER REVIEW) Vol. XII, Issue No. 0886- 9367, September 2020 **ISSN :** 0886- 9367.

4. **"LU- Factorization Method to Solve Fuzzy Linear Programming Problem as Multi ObjectiveLinear Programming Problem"** published in International Journal of Research in Advent Technology (IJRAT) (PEER REVIEW) Vol. , Issue No. , January 2019 **ISSN :** 2321- 9637.

5. **"LU-Factorization Method to Solve Fully Fuzzy Linear Programming Problem as Multi Objective Linear Programming Problem"** published in International Journal of Research in Advent Technology (PEER REVIEW) Vol. , Issue No. , January 2019 **ISSN :** 2321- 9637.

6. **"Solving Intuitionistic Fuzzy Transportation Problem Using New Method"** published in International Journal for Research in Engineering Application & Management (IJREAM), (PEER REVIEW) Vol. 4, Issue No. 8, November 2018 **ISSN :** 2454-9150.

7. **"Solving Generalized Fuzzy Transportation Problem Using New Strategies"** published in International Journal of Research in Advent Technology (PEER REVIEW) Vol. 6, Issue No. 10, October 2018 **ISSN :** 2321- 9637.

8. **"Improved Ranking of Generalized Trapezoidal fuzzy numbers"** published in International Journal of Innovative Research in Science, Engineering and Technology (PEER REVIEW) Vol. 4, Issue No. 7, January 2015 **ISSN :** 2347-6710..

9. **"New Approaches to find the solution for the Intuitionistic fuzzy transportation problem with ranking of Intuitionistic fuzzy numbers"** published in International Journal of Innovative Research in Science, Engineering and Technology (PEER REVIEW) Vol. 4, Issue No. 10, January 2015 **ISSN :** 2347-6710.

10. **"Methods to find the solution for the Intuitionistic fuzzy assignment problem with ranking of Intuitionistic fuzzy numbers"** published in International Journal of Innovative Research in Science, Engineering and Technology (PEER REVIEW) Vol. 4, Issue No. 7, January 2015 **ISSN :** 2347-6710.

11. **"New approach to find the solution for the generalized fuzzy assignment problem with ranking of generalized fuzzy numbers"** published in International Journal of Science and Research (PEER REVIEW) Vol. 4, Issue No. 9, January 2015 **ISSN :** 2319-7064.

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12. **"Generalized fuzzy Hungarian method for generalized trapezoidal fuzzy transportation problem with ranking of generalized fuzzy numbers"** published in International Journal of Applied mathematics and statistical sciences (IJAMSS) (PEER REVIEW) Vol. 3, Issue No. 1, January 2014 **ISSN :** 2319-3972.

13. **"A New ranking of Intuitionistic fuzzy numbers with distance method based on the circumcenter of centroids"** published in International Journal of Applied mathematics and statistical sciences (IJAMSS) (PEER REVIEW) Vol. 2, Issue No. 4, January 2013 **ISSN :** 2319-3972.

14. **"New ranking of Trapezoidal Intuitionistic fuzzy numbers based on the score function"** published in International Journal of Applied mathematics and statistical sciences (IJAMSS) (PEER REVIEW) Vol. 2, Issue No. 5, January 2013 **ISSN :** 2319-3972.

15. **"A New method for ranking of Intuitionistic fuzzy numbers"** published in Indian journal of applied research (PEER REVIEW) Vol. 3, Issue No. 6, January 2013 **ISSN :** 2249-555X.

16. **"Solving intuitionistic fuzzy variable linear programming problem using new ranking method of TIFN"** published in International eJournal of Mathematics and Engineering (E-JOURNAL) Vol. 215, Issue No. , January 2013 **ISSN :** 0976 – 1411.

17. **"Generalized fuzzy Hungarian method for Generalized fuzzy assignment problem"** published in International Journal of Mathematical Sciences and Engineering Applications (IJMSEA) (PEER REVIEW) Vol. 6, Issue No. IV, July 2012 **ISSN :** 0973-9424.

18. **"Different strategies to solve fuzzy linear programming problems"** published in Recent Research in Science and Technology (PEER REVIEW) Vol. 4, Issue No. 5, January 2012 **ISSN :** 2076-5061.

19. **"New methods to solve fuzzy assignment problems using ordering based on the magnitude of a fuzzy number"** published in Advances in Fuzzy Sets and Systems (PEER REVIEW) Vol. 13, Issue No. 1, January 2012 **ISSN :** 0973-421X.

20. **"Generalized fuzzy modified distribution method for generalized fuzzy transportation problem"** published in International Multidisciplinary Research Journal (PEER REVIEW) Vol. I, Issue No. 10, January 2011 **ISSN :** 2231-6302.

21. **"Intuitionistic Fuzzy Simplex Algorithms using Ordering"** published in International Review of Pure and Apllied Mathematics (PEER REVIEW) Vol. 7, Issue No. 2, January 2011 **ISSN :** 0973-1350.

Additional Information

@   Academic Council Member - 2017-2019

@   Staff Council Member - 2017-2019

@   President of Mathematics Association - 2009-2010

@   Vice President of Mathematics Association - 2016-2017

@   Member of SADHANA (Women cell) - 2002- till dae

@   Member of Lioness club - 2005-2006

@   Member of Religious Life Committee - 2006-2010

@   underprivileged and first generation learners - 2006-2009

@   Co-ordinator (Shift I) - 2017- 2019

Signature of Staff
(S.SAGAYA ROSELINE)