

## DEPARTMENT OF MATHEMATICS

1	Name	Dr.B.Mohamed Harif		
2	Designation	Assistant Professor		
3	Qualification	M.Sc., M.Phil., NET, SET, PGDCA, Ph.D		
4	Age & DOB	39 & 13.05.1984		
5	Date of first appointment	02.06.2008		
6	Date of joining in Govt. service	26.02.2011		
7	Research Experience (years)	-		
8	Area of Research	Mathematical Modelling and Fuzzy Mathematics		
9	Research Guidance (No)		M. Phil	Ph. D.
		Guided	25	-
		Guiding	-	04
		Others		
10	Research Papers (No)	20		
11	Books published (No)	-----		
12	Major/Minor Projects	-----		
13	Conference Participation	27		
14	Conference Organized	-		
15	Awards/Honours Received	01		
16	Extension Activities	Department IQAC member June 2018 to still		
17	Administrative Position in college	-----		
18	Membership in academic/professional bodies	Board of Studies Member in Jamal Mohamed College, Trichy-620020. Board of Studies Member in Bharath College of Science and Technology, Thanjavur.		
19	Others (relevant to academic activity)	NET/SET Examination Trainer in few Colleges		
20	For Correspondence	Mobile Number	9994289508	
		Mail id	bmharif@rsgc.ac.in	

**Academic:**

<b>Degree</b>	<b>Institution</b>	<b>Month and Year of passing</b>	<b>Aggregate</b>	<b>Ranks / if any</b>
<b>Ph.D</b>	Rajah Serfoji Govt. College, Thanjavur. Bharathidasan University	February 2019	Commended	-
<b>NET</b>	UGC-CSIR	December 2017	39.75%	70 <sup>th</sup> rank
<b>SET</b> (Mathematics)	Bharathiyar University, Coimbatore	March 2006	-	-
<b>M.Phil.</b> (Mathematics)	Alagappa University Karaikudi	June 2008	61.3%	-
<b>M.Sc.</b> (Mathematics)	Jamal Mohamed College, Trichy. Bharathidasan University	April 2006	91.24%	-
<b>B.Sc.</b> (Mathematics)	Jamal Mohamed College, Trichy. Bharathidasan University	April 2004	86.68%	20 <sup>th</sup> rank
<b>PGDCA</b>	Bharathiyar University, Coimbatore	June 2008	60.5%	-
<b>H.Sc.</b> State Board	Govt. A.D.W. Boys Hr. Sec. School Katur, Trichy-19	March 2001	86.75%	Gold Model
<b>S.S.L.C.</b> State Board	Govt. A.D.W. Boys Hr. Sec. School Katur, Trichy-19	March 1999	89.40%	-
<b>DCA &amp; MDTP</b>	Computerized Calligraphy Training Centre, Jamal Mohamed College, Trichy	June 2004	76.00%	-

**Experience:**

1. Working as Assistant Professor of Mathematics in **Rajah Serfoji Government College**, Thanjavur-5, February 26, 2011 – still now
2. Assistant Professor of Mathematics in **Jamal Mohamed College**, Trichy-20, June 13, 2009 – February 25, 2011.
3. Assistant Professor of Mathematics in **Chidambaram Pillai College**, Manachanallur, Trichy, June 2, 2008 – March 31, 2009.

4. Research Assistant in **National Institute of Technology**, Trichy-15,  
July 30, 2007 – January 29, 2008
5. PG Assistant in Mathematics, **Veveaham Higher Secondary School**, Dharapuram,  
Tiruppur (Dt). June 1, 2006 – April 19, 2007.

### **Research Advisor:**

1. Ph.D., Research Advisor:  
Ref. No: 021618/ Ph.D/ K12/ Mathematics/ R.A.,/ 19-03-2021.  
(Guiding 4 students, 2 PT and 2 FT)
2. MPhil., Research Advisor:  
Ref. No: 30032/ R.A/ MPhil/ Mathematics/ 2012: 03-10-2012.  
(More than 20 students (Full Time only))

### **Award**

I received Young Researcher Award by Rathinam College of Arts and Science (Autonomous) and Infinity Award 2020, International Mathematician's Honour held on 22.12.2020.

### **Co-Curricular Activities:**

1. Board of Studies Member in Jamal Mohamed College (Autonomous), Trichy and period of 2 years w.e.f 02.09.2017.
2. Board of Studies Member in Jamal Mohamed College (Autonomous), Trichy and period of three years w.e.f 04.10.2019.
3. Attended the Board of Studies Meeting held on 07.03.2020 in the PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy.
4. Attended the Board of Studies Meeting held on 31.08.2019 in the PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy.
5. Acted as Subject Expert in the Board of Studies Meeting held on 26.04.2019, Department of Mathematics, Dhanalakshmi Srinivasan College of Arts and Science for Women (Autonomous), Perambalur.
6. Acted as Subject Expert in the Board of Studies Meeting held on 11.03.2021, Department of Mathematics, GTN Arts College (Autonomous), Dindigul.
7. Attended the Board of Studies Meeting held on 18.03.2020 in the PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy.

8. Attended the Board of Studies Meeting held on 25.09.2021 in the PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy.

9. Attended the Board of Studies Meeting held on 18.03.2021 in the PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy.

10. Board of Studies Member in Bharath College of Science and Management, period of 3 years w.e.f academic year 2021-2022.

11. Acted as Subject Expert in the Board of Studies Meeting held on 19.01.2022, Department of Mathematics, GTN Arts College (Autonomous), Dindigul.

12. Attended the Board of Studies Meeting held on 12.03.2022 in the PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy.

13. Participated Doctoral committee meeting as on External Subject Expert, the meeting held on 4.11.2022 at Dhanalakshmi Srinivasan University, Trichy.

#### **SWAYAM Online Course (NPTEL online certification)**

1. Completed the course Modern Algebra, Aug-Oct 2021 (8 weeks)
2. Completed the course Introduction to Abstract and Linear Algebra, Aug-Oct 2021 (8 weeks)

#### **Acted as Resource Person/ Special Lecture/Guest Lecture:**

1. Acted as Resource Person on A one-day workshop on competitive examination about CSIR/SET organized by Annai Vailankanni Arts and Science College, Thanjavur held on 25.08.2023.
2. Delivered a Special lecture for **Unsteady – State Numerical Analysis of Advanced Savonius Wind Turbine** held on 28.07.2023 organized by Department of Mathematics, Bon Secours College for Women (Autonomous), Thanjavur.
3. Acted as Resource Person for **Seminar on Cracking CSIR-NET Exams based on Mathematics** held on 22.12.2021 organized by Department of Mathematics, Srinivasan College of Arts and Science, Perambalur.
4. Acted as Resource Person for **Seminar on how to face NET/SLET/GATE Examinations** held on 19.02.2021 organized by Department of Mathematics, VELS Institute of Science, Technology and Advanced Studies(VISTAS), Chennai.
5. Acted as Resource Person for **Online Workshop on Cracking CSIR-NET Exams based on Mathematics** held on January to February-2022 organized by Department of Mathematics, PSGR Krishnammal College for Women, Coimbatore.

6. Acted as Resource Person for **One week State Level Online Workshop on Cracking Competition Exams based on Mathematics** held on 14.02.2020 – 19.02.2020 organized by Department of Mathematics, Periyar Maniammai Institute of Science and Technology (Deemed to be University).
7. Acted as Resource Person for **The Purpose of Mathematical Science** held on 20.12.2022 organized by Department of Mathematics, Bon Secours College for Women (Autonomous), Thanjavur.
8. Delivered a lecture on **Seminar on Art of Mathematics** held on 11.12.2021 organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-620020.
9. Delivered a lecture on **Seminar on General Application of Mathematics** held on 10.12.2021 organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-620020.
10. Acted as Resource Person and Chief Guest for **Three days State Level Workshop on Cracking Competition Exams based on Mathematics** held on 25.02.2020 – 27.02.2020 organized by Department of Mathematics, Periyar Maniammai Institute of Science and Technology (Deemed to be University).
11. Delivered a Special lecture on **Important of Mathematics in Different Field** held on 12.02.2020 organized by Department of Mathematics, Srivenkateswara College of Arts and Science for Women, Peravurani-614804.
12. Delivered a Special lecture on **Shortcut Techniques in General Aptitude Problems** held on 08.02.2020 organized by Department of Mathematics, Chidambaram Pillai College for Women, Mannachanallur, Trichy-621005.
13. Acted as Resource Person and Chief Guest for **One day Workshop on Mathematical Sciences for Effective Preparation of UGC-CSIR NET/SET** held on 06.02.2020 organized by Poombuhar College (Autonomous), Melaiyur – 609107.
14. Delivered a Special lecture on **How to Face Various Competitive Examinations in Mathematical Sciences** held on 03.01.2020 organized by Selvamm Arts and Science College (Autonomous), Namakkal – 637003.
15. Acted as Resource Person for **Vacational Training on the Appropriateness of Latest Technology in Mathematics** held on 03.12.2019 organized by Department of Mathematics, Bon Secours College for Women (Autonomous), Thanjavur.
16. Acted as Resource Person and Chief Guest for **Complex Analysis, Differential Equations and Operations Research in One Week State Level Workshop on**

**Cracking Competition Exams CSIR-UGC NET/SET** from 23.09.2019 to 28.09.2019 organized by Department of Mathematics, Periyar Maniammai Institute of Science and Technology (Deemed to be University).

17. Guest lecture in the topic **Algebra and Number Theory** held on 20.09.2019 organized by Mount Zion College of Engineering and Technology, Pudukkottai.
18. Delivered a Special lecture and Chief Guest for **Mathematics Association Meeting** held on 28.08.2019, organized by Rabiammal Ahamed Maiden College for Women, Tiruvarur – 610001.
19. Acted as Resource Person for the Inauguration of ‘KITE’ Mathematics Department Association and Delivered Guest lecture in the topic **Role of Mathematics in Real Life** held on 13.08.2019(FN) organized by Parvathy’s Arts and Science College, Dindigul – 624002.
20. Delivered a Special lecture on **Awareness Programme for various Competitive Examination in Mathematics** held on 13.08.2019(AN) organized by Department of mathematics, GTN Arts College (Autonomous), Dindigul-5.
21. Delivered a Special lecture and Chief Guest for **Mathematics Association Meeting** held on 18.02.2019 organized by Department of Mathematics, Government Arts College for women (Autonomous), Pudukkottai – 622001.
22. Acted as Resource Person and Chief Guest for **One day Training Program for CSIR-NET/SET** conducted by Dr.Umaiyaal Ramanathan College for Women, Karaikudi – 630003 held on 14.09.2018.
23. Delivered a Special lecture on **Algebra** held on 18.08.2017 organized by PG and Research Department of Mathematics, Urumu Dhanalakshmi College, Trichy-19.
24. Delivered a Special lecture on **Algebra and its Applications** held on 09.08.2017 organized by Department of Mathematics, National College (Autonomous), Trichy – 620001.
25. Delivered a Special lecture on **How to Face Various Competitive Examination in Mathematical Sciences** held on 20.07.2017 organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-620020.
26. Acted as Resource Person for **One day Training Programme for CSIR-NET/SET Examination in Mathematical Sciences** held on 20.03.2017 organized by PG and Research Department of Mathematics, Urumu Dhanalakshmi College, Trichy.

27. Delivered a Special lecture in seminar on **Linear Algebra and Application of Mathematical Modeling** held on 30.10.2016 organized by Idhaya College for Women, Kumbakonam – 612001.
28. Delivered a Special lecture on **Application of Mathematics in Real Life** held on 29.08.2016 organized by Department of Mathematics, Srivenkateswara College of Arts and Science for Women, Peravurani-614804.
29. Acted as Resource Person for **NET/SET Coaching Class (General Paper – I)** held on 22.12.2015 organized by PG and Research Department of English, Cauvery College for Women, Trichy.
30. Acted as Resource Person for DST sponsored **National Level Seminar on Mathematics Popularization and Communication (Technical session IV - General Application of Mathematics)** held on 05.11.2015 to 07.11.2015 organized by Kings College of Engineering, Thanjavur.
31. Delivered a Special lecture on **Basic Aptitude** organized by Kings College of Engineering, Punalkulam held on 14.09.2015.
32. Acted as Resource Person for **One day Training Programme for NET/SET Examination** held on 19.03.2015 conducted by Department of Mathematics, Bhararth College of Science and Management, Thanjavur.
33. Delivered a Special lecture on **Arts of Mathematics** organized by Annai Vailankanni Arts and Science College, Thanjavur held on 16.03.2015.
34. Delivered a Special lecture in **Seminar on Role of Mathematics in Competitive Examination** held on 05.02.2014 organized by PG and Research Department of Mathematics, Urumu Dhanalakshmi College, Trichy.
35. Delivered a Special lecture in **Seminar on How to Face NET/SET and GATE – Exams** held on 30.08.2013 organized by PG and Research Department of Mathematics, Urumu Dhanalakshmi College, Trichy.
36. Acted as Resource Person for **NET/SET Coaching Class** held on 12.02.2013 organized by Kunthavai Nacchiaar Arts College for Women (Autonomous), Thanjavur.
37. Acted as Resource Person for In-voice Programme on “**Analytical Geometry and Algebra Problems Shortcut method**” held on 22.01.2013 at Govt. College of Education, Orathanadu.

38. Acted as Resource Person for **the UGC NET/SET Coaching Programme (General Paper – I)** held on 03.09.2012 and 04.09.2012 at AVC College (Autonomous), Mannampandal – 609305.
39. Acted as Resource Person in the **UGC sponsored NET/SET Examination (General Paper –I) Coaching Programme** held on 05.06.2012 Organized by Erode Arts and Science College (Autonomous), Erode – 638009.
40. Delivered the Special lecture on **Linear Algebra and Algebra Problems Short-cut Methods** Organized by Department of Mathematics, Srinivasan College of Arts and Science, Perambalur.
41. Acted as Resource person in **the UGC – NET/SET Paper I Coaching Programme** Organized by Jamal Mohamed College (Autonomous), Trichy – 20.
42. Acted as Resource person in **the UGC – NET/SET Paper I Coaching Programme** Organized by Govt. College for Men, Kumbakonam.
43. Acted as Resource person in **the UGC – NET/SET Paper I and Paper II Coaching Programme** Organized by Govt. College for Women, Kumbakonam.
44. Acted as Resource person in **the UGC – NET/SET Paper I Coaching Programme** Organized by Karanthai Arts and Science college, Karanthai, Thanjavur.
45. Acted as Resource person in Seminar on **Quantitative Aptitude in Competitive Examination** Organized by Nehru Memorial College, Puthanampatti, Thuraiyur.
46. Guest Faculty of **NET, SET and GATE Examination Coaching Class** conducted by Department of Mathematics, Urmu Dhanalakshmi College, Trichy-19 held from September to December 2013.
47. Acted as Resource person in **the UGC – NET/SET Paper II and Paper III Coaching Programme** at PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy – 20.
48. Delivered the Special lecture on **Linear Algebra and Algebra Problems Short-cut Methods** Organized by Department of Mathematics, Bharathidasan University Constitution College, Orathanad.
49. Acted as Resource person in **the UGC – NET/SET Paper I Coaching Programme** Organized by Annai College, Kumbakonam, Thanjavur.
50. Delivered a Special lecture on **Various Application of Mathematics in Real Life**, Department of Mathematics, Government Arts College, Perayurani, Thanjavur.



51. Acted as Resource person in **One day Training Programme for NET/SET Examination in Mathematics** organized by Department of Mathematics, Govt. College, Mannargudi.
52. Acted as Resource person in **One day Training Programme in Linear Algebra for NET/SET Examination** organized by Department of Mathematics, Cauvery College for Women, Trichy.

#### **Participated in Orientation /Refresher Courses:**

1. Participated in the Oriented Course (Intensive Training Programme) conducted for the newly recruited Govt. arts and science college teacher held from 04-05-2011 to 02-06-2011.
2. Participated in Refresher Course, University Grants Commission, Academic Staff College, UGC sponsored **Summer School (MD)**, held from 2<sup>nd</sup> to 22<sup>nd</sup> May, 2013, Pondicherry University, Puthucherry.
3. Participated in UGC-Sponsored Online Refresher in **Mathematics and Statistics** from 25.11.2020 to 08.12.2020 organized by UGC-Human Resource Development Centre, Bharathidasan University, Trichy-24.
4. Participated in online Refresher Course **Applicable Mathematics** from 15.12.2021 to 29.12.2021 organized by Teaching Learning Centre, Ramanujan College, University of Delhi.
5. Participated in online Refresher Course **Managing online classes and Co-creating MOOCS 22.0** from 07.01.2023 to 21.01.2023 organized by Teaching Learning Centre, Ramanujan College, University of Delhi.

#### **Presented a Paper in State/National/International Seminar and Conference**

- [1] Presented a paper entitled as “**Normal Interval Valued Intuitionistic R – Fuzzy Ideals in Ternary Semi – Rings**” in the 2<sup>nd</sup> International Conference on Mathematical Techniques and Applications (e-ICMTA 2021) held on 24.03.2021 to 26.03.2021 organized by Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur-603203, Chengalpattu District, Tamil Nadu.
- [2] Presented a paper entitled as “**Mathematical Fuzzy Modeling for the Secretion of Cortisol Due to Human Stress Based on Symmetric Trapezoidal Fuzzy Numbers**” in the International Conference on Recent Trends in Mathematical

Modeling held on 12.02.2016 organized by PG and Research Department of Mathematics, Rani Anna Govt. College, Tirunelveli.

- [3] Presented a paper entitled as “**Mathematical Fuzzy Modeling for the Secretion of Cortisol Due to Human Stress Based on Symmetric Trapezoidal Fuzzy Numbers**” in the International Conference on Recent Trends in Mathematical Modeling held on 12.02.2016 organized by PG and Research Department of Mathematics, Rani Anna Govt. College, Tirunelveli.
- [4] Presented a paper entitled as **Fuzzy Model for Smoking Cessation and Cortisol Awakening Responses** in the international conference on mathematical methods and computation (ICOMAC – 2015) held on 22.01.2015 and 23.01.2015 organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-620020.
- [5] Presented a paper entitled as **Fuzzy Model for Testosterone and Cortisol Responsiveness Winning and Losing Experience in the Female Games** in the International Conference on Advances in Applied Probability, Graph Theory and Fuzzy Mathematics (ICAPGF – 2014) sponsored by KSCSTER and DST, co-sponsored by Mahatma Gandhi University, Kottaiyam, Kerala and organized by Department of Mathematics, St.Peter’s College, Kolenchery in Association with Kerala Mathematical Association during 11.01.2014 – 14.01.2014 at St.Peter’s College, Kolenchery, Kerala.
- [6] Presented a paper entitled as “**n-fuzzy n-normed linear space**” in the International Conference on Emerging Trends in Mathematics and Computer Applications held on 16.12.2010 – 18.12.2010 organized by Department of Mathematics, Mepco Schenk Engineering College, Sivakasi.
- [7] Presented a paper entitled as **Controlling Human moods by Fuzzy Logic** in the National Level Seminar on Fuzzy Mathematical Modeling in Agriculture and Waste land Development held on 28.03.2009 and 29.03.2009 sponsored by the University Grant Commission (UGC) and SERO, Hyderabad organized by the PG and Research Department of Mathematics, Khadir Moideen College, Adirampattinam.
- [8] Presented a paper entitled as “**Mathematics of Finance and Insurance – A view**” in the State Level Seminar held on 14.02.2009 conducted by Department of mathematics at Dhanalakshmi Srinivasan College of Arts and Science College for Women (Autonomous), Perambalur – 621212.

### **List of publication in international journals**

1. B. Mohamed Harif, T. M. Nishad, “Group decision making in conditions of uncertainty using Fermat’s weak fuzzy graph and Beal’s weak fuzzy graph”, *Ratio Mathematica*, Vol.43, Dec 2022. DOI:10.23755/rm.v39i0.854. ISSN: 1592-7415. eISSN: 2282-8214.
2. B. Mohamed Harif, T. M. Nishad and Talal Ali Al-Hawary, “General Fuzzy Graphs”, *Ratio Mathematica*, Vol.47, June 2023. [https://DOI:10.23755/rm.v39i0.853](https://doi.org/10.23755/rm.v39i0.853). ISSN: 1592-7415. eISSN: 2282-8214.
3. B. Mohamed Harif and T. M. Nishad, “Interval Valued Weak Fuzzy Graphs and Fermat’s Weak Fuzzy Graphs”, *Advances and Applications in Mathematical Sciences*, Volume 22, Issue 2, December 2022, Pages 487-501, Mili Publications, India.
4. D. Dhamodharan, B. Mohamed Harif, and Bonyah Ebenezer, “Stability analysis of transmitter receptors model”, *Mathematical Analysis and its Contemporary Applications*, Volume 4, Issue 3 (9–16), 2022. ISSN 2716-9898. <https://doi.org/10.30495/maca.2022.1953296.1051>.
5. B.Mohamed Harif, “A computational method(CM) for Prediction Based on Student Improvements and Comparisons with Different Mean Practices”, *Malaya journal of Mathematik*: no.1, 302-304 (2021), 8413–8419, ISSN: 1857-8365 (printed); 1857-8438 (electronic), <https://doi.org/10.26637/MJM0901/0051>.
6. B.Mohamed Harif, “A Computational Method for Prediction Based on Fuzzy Time Series with Various Mean Comparisons”, ISSN NO: 1301-2746, *ADALYA JOURNAL*, Volume 9, Issue 8, page No. 370-375, August 2020. <https://doi.org/10.37896/aj9.8/042>.
7. B.Mohamed Harif, “Prediction System Based on Student Improvements and Comparisons with Different Mean Practices”, *Advances in Mathematics: Scientific Journal* 9 (2020), no.10, 8413–8419, ISSN: 1857-8365 (printed); 1857-8438 (electronic), <https://doi.org/10.37418/amsj.9.10.70>.
8. Dr.P.Senthil kumar, B.Mohamed Harif “Rule-Based Mamdani Type Fuzzy Modeling of Perceived Stress, And Cortisol Responses to Awakening” ISSN: 2248-9622, *International Journal of Engineering Research and Applications*, Vol.4, Issue 7, August 2014.
9. Dr.P.Senthil kumar, B.Mohamed Harif “Fuzzy Modeling of Perceived Stress, And Cortisol Responses to Awakening Using Distance for Fuzzy Sets” *Inte.* ISSN : 2250-3153, *International Journal of Scientific and Research Publications*, Vol.4, Issue11, November 2014.

10. Dr.P.Senthil kumar, B.Mohamed Harif “Fuzzy Modeling of Cortisol Secretion of Job Strain due to Stress Using Extended Hausdroff Distances for Intuitionistic Fuzzy Sets” ISSN: 0975-7139, Aryabhata Journal of Mathematics & Informatics, Vol.6, No. 2, July - Dec 2014.
11. Dr.P.Senthil kumar, B.Mohamed Harif “Fuzzy Model for Smoking Cessation and Cortisol Awakening Responses” ISSN: 2320 –3242 (P), 2320 –3250, International Journal of Fuzzy Mathematical Archive, Vol.6, No.2, January 2015.
12. Dr.P.Senthil kumar, B.Mohamed Harif “Fuzzy Model for Performance in Cortisol” ISSN: 2248-9622, International Journal of Engineering Research and Applications, Vol.5, Issue 10, October 2015.
13. Dr.P.Senthil kumar, B.Mohamed Harif and A.Nithya, “The Cortisol Awakening Response for Using Modified Method for Higher order Logical Relationship”, ISSN: 2395-2946, International Journal of Innovative Trends in Engineering, Vol.6, No.1, Page 22-28, 2015.
14. Dr.P.Senthil kumar, B.Mohamed Harif and A.Nithya, “The Cortisol Awakening Response Using Modified Proposed Method of Forecasting Based on Fuzzy Time Series”, International Journal of Engineering Research and Applications, Vol.5, Issue 10(Part 3), Page: 63-70, July 2015.
15. Dr.P.Senthil kumar, B.Mohamed Harif and A.Nithya, “Forecasting for the Cortisol Levels After Awakening Based on High order Fuzzy Logical Relationship”, ISSN: 0975-7139, Aryabhata Journal of Mathematics and Informatics, Vol. 7, No.1, Page No. 13-22, Jan-June 2015.
16. Dr.P.Senthil kumar, B.Mohamed Harif and A.Nithya, “The Cortisol Awakening Response Using Modified Computational Method of Forecasting Based on Fuzzy Time Series”, International Journal of Engineering Research and Applications, Vol. 5, Issue 12, Page No. 18-22, December – 2015.
17. Dr.P.Senthil kumar, B.Mohamed Harif and A.Nithya, “The Cortisol Awakening Response for using Fuzzy Time Series and Genetic Algorithm”, ISSN: 2250-3153, International Journal of Scientific and Research Publications, Vol. 5, Issue 7, Page No. 1-8, July – 2015.
18. Dr.P.Senthil kumar, B.Mohamed Harif and A.Nithya “Fuzzy Model for Testosterone and Cortisol Responsiveness to Winning and Losing Experiences in Female Games” ISBN: 978-93-5174-243-2, Proceedings of the KSCSTE, DST sponsored International Conference

on Advances in Applied Probability, Graph Theory and Fuzzy Mathematics (ICAPGF),11-14 January,2014.

19. P.Thiruvani, B.Mohamed Harif and A. Mohamed Ali, “Medical Diagnostic Reasoning Using Extended Hausdroff Distance for Intuitionistic Fuzzy Sets”, ISSN: 2248-9622, International Journal of Engineering Research and Applications, Vol.4, Issue 10, October 2014.

### **Training Programme/Outreach Programme**

1. Attended the One Week Short-Term Training Program (STTP) on Solution of Differential Equations and Its Applications (SDEA), Organized by Department of Mathematics, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India, during January 04-08, 2021 in Online Mode.
2. Attended in One Week E – Faculty Development Programme on Fixed Point Theory and its Application organized by Manipal University, Jaipur during 15.09.2020 to 19.09.2020.
3. Attended 1<sup>st</sup> Outreach Programme conducted by Ramanujam Mathematical Society and National College (autonomous) from 10.09.2016 to 13.09.2016.
4. Attended Advanced Training Programme in Mathematical Analysis supported by NBHM and ISI Chennai Centre during 05.08.2015 to 09.08.2015 at School of Mathematics, Bharathidasan University, Trichy-24.
5. Attended in Level – II of MTTTS Programme Funded by NBHM, S.P College, Pune on 16.05.2005 – 11.06.2005.

### **Workshop**

1. Attended in the Online Workshop on Algebra and Analysis organized by Department of Mathematics, Mepco Schenk Engineering College, Sivakasi, during 25.10.2020 to 15.11.2020.
2. Attended the Science Academies’ Lecture Workshop on Algebra and Analysis organized by Department of Mathematics, Karpagam University, Coimbatore on 04.01.2017 and 05.01.2017. (Sponsored by IASc – INSA – NASI Joint Science Education Panel)
3. Attended UGC sponsored One day State Level Workshop on LATEX organized by PG and Research Department of Mathematics, Rajah Serfoji Govt. College(Autonomous), Thanjavur-613005, on 04.03.2014.

4. Attended in UGC sponsored Two day State Level Workshop on Graph theory and Stochastic Processes organized by PG and Research Department of Mathematics, Rajah Serfoji Govt. College (Autonomous), Thanjavur-613005, on 26.08.2013 and 27.08.2013.
5. Attended Workshop on Mathematical Modeling organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-620020 on 19.01.2011 – 25.01.2011, under UGC autonomous grant.
6. Attended One day Workshop on Simulating Complex Predictive System and Bayesian Modeling in Image Processing - Applications under TEQIP community service on 28.01.2008 at Department of Mathematics, National Institute of Technology, Tiruchirappalli – 620015.
7. Attended One day Workshop on Introduction to Simulating Complex Predictive System and Bayesian Modeling in Image Processing under TEQIP community service on 25.01.2008 at Department of Mathematics, National Institute of Technology, Tiruchirappalli – 620015.
8. Attended Two day Workshop on Computational Fluid Dynamics under TEQIP joint network activity with NIT Warangal on 17.09.2007 and 18.09.2007 at Department of Mathematics, National Institute of Technology, Tiruchirappalli – 620015.

#### **State/National/International Conference and Seminar**

1. Attended the expert talk on Recent Application of Mathematics in Engineering on the occasion of national mathematics day and Srinivasan Ramanujan Birthday Anniversary organized by the department of Applied Science and Mathematics, K. K. Wagh Institute of Engineering Education and Research, Nashik held on 22/12/2020.
2. Attended the online webinar on Mathematical Modeling and Number theory held on 22/12/2020 organized by Department of Science and Humanities in Association with R and D cell, Don Bosco College of Engineering.
3. Attended the national webinar on Application of Graph theory held on 30.12.2020 organized by Department of Mathematics, K.S.Rangasamy College of Arts and Science(Autonomous), Tiruchengode.
4. Attended the webinar on Recent Advances of Applied Sciences held on 12.12.2020 to 16.12.2020 jointly organized by Department of Mathematics and Department of Physics, National Institute of Technology, Manipur.

5. Attended International Conference On Pure and Applied Mathematics(ICOPAM – 2020) organized by PG and Research Department of Mathematics, Idhaya College for Women, Kumbakonam on 11.01.2020.
6. Attended National Conference on Current Scenario in Pure and Applied Mathematics (NCCSPAM – 2019) held on 26.02.2019(FN) organized by PG and Research Department of Mathematics, Marudupandiar College, Thanjavur.
7. Attended National Level Seminar on Mathematics and its Application organized by PG and Research department of Mathematics, Annai Vailankanni Arts and Science College, Thanjavur-613007 on 26.02.2019(AN).
8. Attended International Conference on Mathematical Methods and Computation (ICOMAC – 2017) organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-620020 on 11.12.2017.
9. Attended National Level Seminar on Modern Trends in Mathematics organized by PG and Research Department of Mathematics, Shrimathi Indra Ganthi College, Trichy-620002 on 22.12.2016.
10. Attended National Conference on Advances in Applied Mathematical Sciences organized by PG and Research Department of Mathematics, Cauvery College for women, Trichy-620018 on 12.08.2016 – 13.08.2016.
11. Attended NAAC sponsored National Level Seminar on Quality Enhancement in Teaching, Research and Extension in Higher Education Institutions – Prospects and Problems organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Trichy-620020 on 15.04.2010 – 16.04.2010.
12. Attended the Seminar on Creating Competitiveness to Excel in the Higher Education – a TQM Approach organized by Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Trichy-620020 on 08.12.2010.
13. Attended UGC sponsored State Level Seminar on Mathematical Methods in Social Sciences organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-620020 on 08.09.2004 – 09.09.2004.