

## RESUME (as on 05.04.2024)

1. **Name** : A. PRASANNA
2. **Date of Birth** : 12.07.1984
3. **Age** : 39 Years
4. **Religion** : Hindu
5. **Community** : BC – Vellala Gounder
6. **Nationality** : Indian
7. **Address** :



|  |   |
|--|---|
| <b>Permanent:</b><br>3/125 Gounder Street<br>Pulivalam(Po),Musiri(Tk)<br>Tiruchirappalli-620 020<br>Tamil Nadu, India.<br>Email: apj_jmc@yahoo.co.in | <b>Residential:</b><br>No.56/41, Indian Bank Colony<br>II Street<br>KK Nagar<br>Tiruchirappalli-620 021<br>Tamil Nadu, India.<br>Email: <a href="mailto:ap@jmc.edu">ap@jmc.edu</a><br>Mobile: +91-99761-62422 |
|--|---|

### 8. Date of Entry in the Service :

| College   | From       | To         | Category     |
|---|------------|------------|--------------|
| Jamal Mohamed College,<br>Tiruchirappalli -620020 | 01.07.2007 | 31.01.2016 | Self Finance |
| Jamal Mohamed College,<br>Tiruchirappalli -620020 | 01.02.2016 | Till date  | Govt. Aided  |

### 9. Educational Qualifications:

| Exam passed | College / University  | Subjects    | Year | Division / Grade            |
|-------------|---|-------------|------|-----------------------------|
| OSLC        | Jamiul Firdhouse<br>Hr. Sec. School, Trichy                   | State Board | 1999 | I                           |
| HSC         | Jamiul Firdhouse<br>Hr. Sec. School, Trichy                   | State Board | 2001 | I                           |
| B.Sc        | Jamal Mohamed College,<br>Trichy/ Bharathidasan<br>University | Mathematics | 2004 | I                           |
| M.Sc        | Jamal Mohamed College,<br>Trichy/ Bharathidasan<br>University | Mathematics | 2006 | I Class with<br>Distinction |
| M.Phil      | PRIDE/ Periyar<br>University, Salem                           | Mathematics | 2008 | I                           |
| PGDCA       | CCI, Trichy   | --          | 2009 | 'A'                         |
| Ph.D.,      | Jamal Mohamed College,<br>Trichy/ Bharathidasan<br>University | Mathematics | 2015 | Highly<br>Commended         |

|                               |  |  |      |         |
|-------------------------------|--|--|------|---------|
| Post-<br>Doctoral<br>Research | Pentagram Research UK Limited, Birmingham, West Midlands, England, United Kingdom (Under the Guidance of Dr. E.G. Rajan) | Electronic Support Measure and Preparation of Electronic Order of Battle Records | 2024 | Awarded |
|-------------------------------|--|--|------|---------|

- Completed Swayam Online Course Certification (4 Credits) in Modern Algebra in 2019
- Completed the Online Course “ Let’s Break the Chain of COVID-19 Infection conducted by The Mohammed Bin Rashid University of Medicine and Health Sciences, UAE in 2020
- Completed the Online Course on Quantitative Aptitude conducted by PG & Research Department of Mathematics, Jamal Mohamed College, Trichy-20 in 2020.
- Completed a **Vedic Mathematics** Course of 21 hours in the duration 15<sup>th</sup> April 2023 to 1<sup>st</sup> July 2023 organized by APJ Abdul Kalam Council for Science and Technology and run by Omni Vedic Maths Acadmeny, Indore.
- Completed Swayam Online Course Certification (2 Credits) in ‘**National Education Policy-2020: Professional Development Programme**’, **Indira Gandhi National Open University, 1<sup>st</sup> December 2023 to 31<sup>st</sup> December 2023.**

**10. Experience (As on 05.04.2024):** Undergraduate: 17 Years  
Postgraduate: 17 Years  
M.Phil: 09 Years

**11. Areas of Specialization :** 1. Fuzzy Algebra  
2. Operations Research  
3. Statistics

**12. Languages known :** Tamil, English and Arabic

**13. Subjects Taught:**

Undergraduate : 1. Operations Research  
2. Differential Equations  
3. Business Mathematics and Statistics

Postgraduate : 1. Operations Research  
2. Differential Equations  
3. Mathematics of Finance

M.Phil : Analysis

## 14. Research Experience

| Research Stage         | Title of Work / Thesis  | College/University where the work was carried out  |
|------------------------|---|--|
| M.Phil                 | Minimum Weight Spanning Tree Algorithms a Survey and Empirical Study  | Jamal Mohamed College/ Periyar University, Salem   |
| Ph.D.                  | Algebraic Properties on Bipolar Q-Fuzzy Regular Lattice, Q-Cyclic Fuzzy Group, Q-Fuzzy Ideal, Anti Q-Fuzzy Ideal and Q- Fuzzy dot d-Ideal | Jamal Mohamed College/ Bharathidasan University, Trichy  |
| Post-Doctoral Research | Electronic Support Measure and Preparation of Electronic Order of Battle Records  | Pentagram Research UK Limited, Birmingham, West Midlands, England, United Kingdom (Under the Guidance of Dr. E.G. Rajan) |

### Research Supervision:

- M.Phil Bharathidasan University Guide-ship Recognition Ref. No.: 22952/ M.Phil/ RA/ Mathematics/2015 Dated 15.07.2015
- Ph.D Bharathidasan University Guide-ship Recognition Ref. No.: 33327/ Mathematics/ RA- Recogn./08.02.2017

**Post Graduate Degree – Project:** Completed: 16 Pursuing – 0

| Course | Pursing   |           | Completed |           |
|--------|-----------|-----------|-----------|-----------|
|        | Full time | Part time | Full time | Part time |
| M.Phil | -         | 1         | 15        | 7         |
| Ph.D.  | -         | 2         | -         | 3         |

### Research Supervision: M.Phil. (Completed)

| S.No. | Name of the scholar | Reg. No.   | Full Time / Part Time | Viva voce  |
|-------|---------------------|------------|-----------------------|------------|
| 1.    | S.Selvam            | 15MPFMA007 | Full Time             | 02.09.2016 |
| 2.    | S.Swaminathan       | 15MPFMA011 | Full Time             | 06.09.2016 |
| 3.    | K.Jaibunisha        | 15MPFMA025 | Full Time             | 08.09.2016 |
| 4.    | T.Kalaivani         | 15MPFMA027 | Full Time             | 15.09.2016 |
| 5.    | Y.Prakash           | 16MPFMA007 | Full Time             | 05.09.2017 |
| 6.    | T.Rabeeh Ahamed     | 16MPFMA008 | Full Time             | 06.09.2017 |
| 7.    | M.Sabika Furvin     | 16MPFMA024 | Full Time             | 08.09.2017 |
| 8.    | R.Mithra            | 16MPFMA019 | Full Time             | 09.09.2017 |
| 9.    | A.Purushothaman     | 16MPPMA002 | <b>Part Time</b>      | 12.03.2018 |
| 10.   | R.Anitha            | 17MPFMA012 | Full Time             | 04.09.2018 |

|     |                      |            |                  |             |
|-----|----------------------|------------|------------------|-------------|
| 11. | B.R.Backia Lashmi    | 17MPFMA014 | Full Time        | 05.09.2018  |
| 12. | J.Jayasri            | 17MPFMA020 | Full Time        | 10.09.2018  |
| 13. | G.Chithra            | 17MPFMA015 | Full Time        | 11.09.2018  |
| 14. | X.Francis            | 17MPPMA004 | <b>Part Time</b> | 26.06.2019` |
| 15. | T.C.Mujeebrahuman    | 18MPFMA007 | Full Time        | 06.09.2019  |
| 16. | T.Gayathri           | 18MPFMA013 | Full Time        | 07.09.2019  |
| 17. | B.Karpagam           | 18MPPMA008 | <b>Part Time</b> | 03.10.2020  |
| 18. | M.Mubeen<br>Tajudeen | 19MPFMA002 | Full Time        | 05.10.2020  |
| 19. | R.Menakagandhi       | 19MPPMA003 | <b>Part Time</b> | 07.01.2022  |
| 20. | M.Mohamed<br>Raffick | 20MPPMA007 | <b>Part Time</b> | 01.07.2022  |
| 21. | M.Kanagalakshmi      | 20MPPMA013 | <b>Part Time</b> | 04-.07.2022 |
| 22. | S. Evelin Lidiya     | 21MPPMA009 | <b>Part Time</b> | 03.07.2023  |

### Research Supervision: Ph.D. (Completed)

| S.No. | Name of the scholar     | Ref. No.  | Title of the Thesis   | Viva voce                     |
|-------|-------------------------|---|---|-------------------------------|
| 1.    | Mr. M.A.<br>RIFAYATHALI | 06989 / K1 / Ph.D / Dir<br>/ Maths / April 2015 | CONTRIBUTIONS TO<br>FUZZY COLORING AND<br>FUZZY LABELING<br>IN FUZZY GRAPHS   | 28th June<br>2019             |
| 2     | Mr.C.GURUBARAN          | 6991<br>/Ph.D./Maths/P.T/April<br>2015          | SOME CONTRIBUTIONS<br>TO EQUITABLE<br>DOMINATION IN FUZZY<br>GRAPHS   | 26th<br>September<br>2019     |
| 3     | Mr.M.<br>PREMKUMAR      | 27385/ Ph.D/K1/Mat/<br>2127385                  | ALGEBRAIC PROPERTIES<br>ON FUZZY<br>TRANSLATION, FUZZY<br>MULTIPLICATION AND<br>FUZZY NORMALIZATION<br>IN FUZZY ALGEBRA | 4 <sup>th</sup> March<br>2022 |

### Book Published:

- ❖ Business Mathematics and Statistics – Dr. Ismail Mohideen, A. Mohamed Ismayil and A. Prasanna-Raja Publication, Trichy, (Dec. 2013) ISBN:978-93- 80243-84-9.
- ❖  $\omega$ -Fuzzy Translation and Multiplication in BH-Algebras, A. Prasanna, M. Premkumar, S. Ismail Mohideen published as **Book Chapter** by BP International, West Bengal, India (Manuscript No.. 2022/BP/ 6131F)
- ❖ Off-line Analysis and Estimation of Radar Signal Parameters for Creating Electronic Order of Battle Records, Theory and Applications of Symbolic Computing with Artificial Intelligence Perspective, **London Journal Press** (2023).
- ❖ R.Jahir Hussain, A.Mohamed Ismayil & A.Prasanna, **SOP** for DBT Star College Scheme- R Programming, Maple and Mathematica (ISBN: 978-93-5891-343-9) (2023)

### Patent:

- ❖ Machine Learning Analytics for Specialized Stock Trading (Application No. 202211002430) Publication Date: 28.01.2022

## Publications

1. A.Prasanna, R.Periasamy and R.Prakash“The Insurance Schemes Calculations – a View” in the Proceeding of the **National Conference** on Management in the Age of Innovation at Jamal Institute of Management (ISBN No. 978 – 81- 909104 – 0- 8), Jamal Mohamed College, Tiruchirappalli, on 25<sup>th</sup> January, 2011.
2. A.Prasanna, J.R. Karthikeyan and G.Praburaj“ Interest Calculation in the Investment – A View” in the Proceeding of the **National Conference** on Management in the Age of Innovation at Jamal Institute of Management (ISBN No. 978 – 81- 909104 – 0- 8), Jamal Mohamed College, Tiruchirappalli, on 25<sup>th</sup> January, 2011.
3. R.Sivanesan, S.Ismail Mohideen, A.Prasanna and S.Masoothu, Analysis of diabetics using R- software, Elixir **International Journal**, 37A (2011) 4141-4142.
4. A.Solairaju and A.Prasanna, Primary Decomposition of Fuzzy Dot Ideals in d-Algebra, **International Journal** of Mathematical Sciences and Applications, Vol. 1, No.2 (May 2011), 671 – 677.
5. A.Solairaju and A.Prasanna, New Structure of Fuzzy Fully Invariant Bipolar Q-Fuzzy Regular Lattices **International Journal** Of Computer Applications (0975 – 8887) Volume 18– No.3, March 2011.
6. A.Solairaju, R.Nagarajan and A.Prasanna, Fuzzy Dot Algebras Over Fuzzy Dot Fields, Global Journal of Mathematical Sciences: Theory & Practical (GJMS), an **International Journal** VOL.4, NO.1 (2012), 57-61
7. A.Solairaju, R.Nagarajan and A.Prasanna, Enumerations of Maximal Chain and Flags Interm of Finite Abelian Groups, Antarctica Journal of Mathematics, 9(4) (2012),331-341.
8. A.Solairaju, R.Nagarajan and A.Prasanna, Some Algebraic Properties of BCK – Algebra’s and Fuzzy S-Semi Groups, Antarctica Journal of Mathematics, 9(4) (2012), 343-350.
9. A.Solairaju, R.Nagarajan and A.Prasanna, Some Structure Properties of Q-Cyclic Fuzzy Group Family, Antarctica Journal of Mathematics, 9(4) (2012), 351- 358.
10. A.Abdulsalam and A.Prasanna, The Practical Application of Cryptography by Using Matrices in Image Identification and Road Mapping” in the proceeding of the **International Conference** on Mathematics A Global Scenario (**National Mathematics Year 2012**) at D-G Vaishav College Chennai on 13, 14. 12.12.
11. A.Abdulsalam and A.Prasanna “Description of Road map by two different persons using matrix” in the proceeding of the One day **International Conference** on Recent Trends in Discrete Mathematics and its applications to science and Engineering at Periyar Maniammai University on 03.12.2013.
12. A.Solairaju and A.Prasanna, Homomorphism in Intuitionistic QL fuzzy subhemiring of a hemiring, Advances in Fuzzy Mathematics, 9(1) (2014), 1-5.
13. A.Prasanna, S.Ismail Mohideen and K.Rajasekar, Matrix based cryptography VB.Net approach, **International Research Journal** of Mathematics, Engineering and IT, Volume-2, Issue-7 (July 2015), IF-2.868, ISSN (2349-0322).

14. T. Kalaivani, A. Prasanna, S.Ismail Mohideen, A. Solairaju, Intuitionistic Fuzzy B-Ideal on B-Algebras, **International Research Journal** of Mathematics, Engineering and IT, Volume-2, Issue-12 (December 2015), IF-2.868, ISSN (2349-0322).
15. A. Prasanna, S.Ismail Mohideen, A. Solairaju and K. Jaibunisha, Homomorphism and Cartesian Product of Anti Q-Fuzzy BG-Ideals in BG-Algebra, **International Research Journal** of Mathematics, Engineering and IT, Vol. 3, Issue 1, Jan 2016, PP: 9-21
16. A.Prasanna, M.A. Rifayathali and S.Ismail Mohideen, Strong Intuitionistic Fuzzy Graph Coloring, **International Journal** of Latest Engineering Research and Applications (IJLERA), ISSN: 2455-7137, Volume – 02, Issue – 08, August – 2017, PP – 163-169.
17. A. Prasanna, M. Premkumar and T. Kalaivani, Anti Fuzzy  $d$  – Ideals in  $d$  – Algebra, **Indian Journal of Scientific Research** (JSR)-Volume 17 Issue 1-2017, ISSN [ONLINE] : 2250-0138,PP 152-155.
18. A.Prasanna, M.A.Rifayathali and S. Ismail Mohideen, Hesitancy Fuzzy Graph Coloring, **International Journal** of Fuzzy Mathematical Archive, Vol.14, No.2, 2017, PP:9-19
19. A.Prasanna, C.Gurubaran and S. Ismail Mohideen, Split and Non-Split Domination Number in Bipolar Fuzzy Graphs, Annals of Pure and Applied Mathematics (**International Research Journal**), Vol.15, No.1, 2017, 115-121
20. A.Prasanna, M.Premkumar and S. Ismail Mohideen, Normalization of Fuzzy BG-Ideals in BG-Algebra, **International Journal** of Mathematics Trends and Technology, Vol.53, No.4, January 2018, 270-276.
21. A.Prasanna, M.Premkumar and A.Solairaju, Normalization of Fuzzy B-Ideals in B-Algebra, **International Journal** of Mathematics Trends and Technology, Vol.53, No.4, January 2018, 277-283.
22. A.Prasanna, M.A. Rifayathali and S.Ismail Mohideen, Anti-Fuzzy Graph Coloring, **International Journal** for Science and Advance Research in Technology (IJSART), ISSN[online]: 2395-1052, Vol. 4, No. 4, April-2018, PP: 2598-2603.
23. A. Prasanna, M. Premkumar and Dr. S. Ismail Mohideen, Fuzzy Translation And Fuzzy Multiplication In B– Algebras, **IJSART** - Volume 4 Issue 4 – APRIL 2018, ISSN [ONLINE]: 2395-1052, PP 2898-2901.
24. A Prasanna, MPremkumar and A Renuga,  $\rho$ -Closed M-Sets in Multi-Set Topological Spaces, **IJSART**-Volume 4 Issue 5 – MAY 2018, ISSN [ONLINE]: 2395-1052, PP 699-708.
25. A. Prasanna, M. Premkumar and Hajee. Dr.S. Ismail Mohideen, Anti Q-Fuzzy B – Ideals in B – Algebra, **International Journal** of Mathematical Archive (IJMA)- Volume 9 Issue 6-June-2018, ISSN [ONLINE]: 2229 – 5046, PP 169-172.
26. C. Gurubaran, A. Prasanna, and A.Mohamed Ismayil, Paired Equitable Domination in Fuzzy Graphs, **International Journal** of Mathematical Archive-9(6), 2018, ISSN 2229 – 5046, pp:43-47.

27. C. Gurubaran, A. Prasanna and A. Mohamed Ismayil, 2 - Equitable Domination in Fuzzy Graphs, **International Journal** of Applied Engineering Research, Volume – 13, Issue – 16, June – 2018, PP – 12531 - 12535.
28. M.A. Rifayathali, A.Prasanna and S.Ismail Mohideen, Hesitancy Fuzzy Magic Labeling Graph, Journal of Analysis – **Springer**, July 2018, pp: 1-15.
29. C. Gurubaran, A. Prasanna, and S. Ismail Mohideen, Connected End Equitable Domination in Fuzzy Graphs, **International Journal** of Research in Advent Technology, Vol.6, No.7, July 2018, pp.1610-1614.
30. M.A. Rifayathali, A. Prasanna and S. Ismail Mohideen, Chromatic Excellence in Hesitancy Fuzzy Graphs, **International Journal** of Research in Advent Technology, Vol.6, No.8, August 2018 E-ISSN: 2321-9637.
31. A. Prasanna, M. Premkumar and S.IsmailMohideen, Anti Q- L-Fuzzy M-Subgroups , Journal of Applied Science and Computations (**JASC**)-Volume- 5 Issue 8-August 2018, ISSN [ONLINE]: 1076-5131, PP 1-18.
32. M.A. Rifayathali, A. Prasanna and S. Ismail Mohideen, Chromatic Excellence in Anti-Fuzzy Graphs, **JASC: Journal of Applied Science and Computations**, ISSN NO: 0076-5131, Vol. 5, Issue 7, pp: 305- 316 (2018).
33. A. Prasanna, M. Premkumar and S.IsmailMohideen, Some properties of Anti Q- L-Fuzzy Normal M-Subgroups, Journal of Applied Science and Computations (**JASC**)- Volume 5 Issue 8- August 2018, ISSN [ONLINE]: 1076-5131,PP 164-174
34. M.A. Rifayathali, A. Prasanna and S. Ismail Mohideen, Coloring of Anti Fuzzy Graph using  $\beta$ -cuts, **JASC: Journal of Applied Science and Computations**, ISSN NO: 0076-5131, Vol. 5, Issue 8, pp: 223- 236 (2018).
35. M.A. Rifayathali, A. Prasanna and S. Ismail Mohideen, Intuitionistic Fuzzy Graph Coloring, IJRAR – **International Journal** of Research and Analytical Reviews, Volume 5, issue 3, July-Sept 2018. Pp-734y-742y.
36. A. Prasanna, M. Premkumar and S.IsmailMohideen, Doubt fuzzy PMS- ideal in PMS – algebras, **International Journal** of Research and Analytical Reviews (IJRAR) September 2018, Volume 5, Issue 3, pp.537-546.
37. C. Gurubaran, A. Prasanna and S. Ismail Mohideen, Inverse Equitable Dominatin in Fuzzy Graphs, Journal of Computer and Mathematical Sciences, Volume – 09, Issue- 10, Oct –2018, PP – 1575 – 1584.
38. C. Gurubaran and A. Prasanna, Equitable Edge Domination in Fuzzy Graphs, Malaya Journal of Matematik, Volume – 06, Issue – 04, Nov – 2018, PP – 716 – 719.
39. M.A. Rifayathali, A.Prasanna and S.Ismail Mohideen, Hesitancy Fuzzy Labeling Graph, **International Journal** of Management, Technology and Engineering, ISSN NO:2249-7455,volume 9, issue 1, January 2019, pp: 318-333.
40. N.Abdul Ali, A.Prasanna , G.Mathura, A.Keerthiga and T.Gayathri On  $k^*$  Quasi Normal Operator of Order  $n$ , **International Journal** of Mathematics Trends and Technology (IJMTT) – Volume 65 Issue 8 - August 2019,pp:154-157.

| S.No. | Title of the Paper  | Name of the Faculty Member   | Name of the Journal   | International / National | Indexing                         | Impact Factor |
|-------|---|--|---|--------------------------|----------------------------------|---------------|
| 41    | Just Chromatic Excellence In Anti-Fuzzy Graphs  | M.A. Rifayathali, A. Prasanna, S. Ismail Mohideen                          | Bulletin of Pure and Applied Sciences   | International            | Indian Citation Index            | 4.895         |
| 42    | Anti Q-Fuzzy Ideals in CI-Algebras  | Dr. A. Prasanna, and M. Premkumar  | Journal of Information and Computational Science  | International            | UGC Care & Scopus                | 0.15          |
| 43    | Doubt Fuzzy BP-Ideals   | Dr. A. Prasanna, M. Premkumar and Muhammad Gulzar                          | Adalya  | International            | UGC Care & Web of Science/Scopus | 5.3           |
| 44    | Algebraic Properties on $\omega$ – Fuzzy Translation and Multiplication in BP- Algebras         | Dr. A. Prasanna, M. Premkumar, Dr. S. Ismail Mohideen and Muhammad Gulzar, | International Journal of Innovative Technology and Exploring Engineering                | International            | Scopus & Elsevier                | 5.54          |
| 45    | Anti Q- Fuzzy CI-Sub algebras and Anti Q-Fuzzy Homomorphism of CI-Algebras                      | Dr. A. Prasanna M. Premkumar, P. Thangamani and Dr. S. Ismail Mohideen     | Journal of Xidian University, ISSN NO: 1001-2400,                                       | International            | Scopus & UGC CARE                | 5.4           |
| 46    | Anti Q-Fuzzy d – Ideals in d – Algebra  | Dr. A. Prasanna, M. Premkumar , M. Kannan and E. Manikandan                | Journal of Xidian University, ISSN NO: 1001-2400,                                       | International            | Scopus & UGC CARE                | 5.4           |
| 47    | Algebraic Properties on $\omega$ – Anti Q –Fuzzy Translation and Multiplication in BP- Algebras | Dr. A. Prasanna, M. Premkumar, Dr. S. Ismail Mohideen and A. Praveen       | Journal of Xidian University, ISSN NO: 1001-2400,                                       | International            | Scopus & UGC CARE                | 5.4           |
| 48    | N-Fuzzy CI-Sub algebras and Homomorphism of CI-Algebras   | Dr. A. Prasanna, M. Premkumar, A.Arul Staline and Dr. S. Ismail Mohideen   | Journal of Xidian University, ISSN NO: 1001-2400  | International            | Scopus & UGC CARE                | 5.4           |
| 49    | Doubt Q –Fuzzy BP-Ideals  | Dr. A. Prasanna, M. Premkumar , M. Kalaiselvi and Dr. S. Ismail Mohideen   | Journal of Xidian University, ISSN NO: 1001-2400,                                       | International            | Scopus & UGC CARE                | 5.4           |
| 50    | On Fundamental Algebraic attributes of $\chi$ –Fuzzy Subring, Normal Subring and Ideal          | Prasanna A, Premkumar M, and Ismail Mohideen S                             | International Journal of Recent Technology and Engineering (IJRTE), ISSN NO: 2277-3878. | International            | Scopus & Elsevier                | 5.54          |
| 51    | Anti Fuzzy Labeling Graph   | M.A. Rifayathali, A. Prasanna, S. Ismail Mohideen                          | Journal of Xidian University, ISSN NO: 1001-2400,                                       | International            | Scopus & UGC CARE                | 5.4           |
| 52    | Anti Q-Fuzzy Ideals in CI-Algebras  | Dr. A. Prasanna and M. Premkumar   | Journal of Information and Computational Science  | International            | UGC Care & Scopus                | 0.15          |



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|----|--|---|---|---------------|------------------------------------|------|
| 53 | On Algebraic Structures on Normalization of Anti $Q$ -Fuzzy BG-Ideals in BG-Algebras   | Dr. A. Prasanna, M. Premkumar & Dr. S. Ismail Mohideen                  | Strad Research  | International | Web Of Science & UGC CARE-II       | 6.1  |
| 54 | Algebraic Structures on Product of $\psi$ - $Q$ -Fuzzy Subgroup and Normal Subgroup  | Dr. A. Prasanna, M. Premkumar & Dr. Dhirendra Kumar Shukla              | Materials Today: Proceedings  | International | Elsevier (Scopus)                  | 1.3  |
| 55 | On Elemental Algebraic Characteristic of $\omega$ -Fuzzy Subring, Normal Subring and Ideal   | Dr. A. Prasanna, M. Premkumar & Dr. S. Ismail Mohideen                  | International Journal of Future Generation Communication and Networking | International | Web of Science, ESCI & UGC CARE-II | 0.4  |
| 56 | Some Characteristic of $\alpha$ -Fuzzy Orders Relative to $\alpha$ -Fuzzy Subgroups, Normal Subgroups and $\alpha$ -Fuzzy Cyclic group | Dr. A. Prasanna, M. Premkumar, Muhammad Gulzar & Dr. S. Ismail Mohideen | Mukt Shabd  | International | UGC CARE-I                         | 4.6  |
| 57 | On Algebraic Structures on $\kappa$ -Intuitionistic $Q$ -Fuzzy Quotient Group  | Dr. A. Prasanna, M. Premkumar & P.Thangamani                            | International Journal of Future Generation Communication and Networking | International | Web of Science, ESCI & UGC CARE-II | 0.4  |
| 58 | Algebraic Properties on $\omega$ -Fuzzy Translation and Multiplication in BH-Algebras  | Dr. A. Prasanna, M. Premkumar & Dr. S. Ismail Mohideen                  | AIP Conference Proceedings  | International | Scopus (Elsevier & Web of Science) | 0.40 |
| 59 | On Algebraic Characteristic on Normalization of Anti $Q$ -Fuzzy B - Ideals in B - Algebra  | Dr. A. Prasanna, M. Premkumar & Dr. S. Ismail Mohideen                  | International Journal of Future Generation Communication and Networking | International | Web of Science, ESCI & UGC CARE-II | 0.4  |
| 60 | Second Small Value for Solving Fuzzy Transportation Problem with Optimal Solution  | Dr. A. Prasanna, S.Sharmila Banu & Dr. S. Ismail Mohideen               | Strad Research  | International | Web Of Science & UGC CARE-II       |      |
| 61 | Fuzzy Optimal Assignment Problem by Zero Suffix Method   | Dr. A. Prasanna, S.Sharmila Banu & Dr. S. Ismail Mohideen               | Strad Research  | International | Web Of Science & UGC CARE-II       |      |

|    |   |  |   |                  |                         |  |
|----|---|--|---|------------------|-------------------------|--|
|    | using Arithmetic Mean Ranking Technique   |  |   |                  |                         |  |
| 62 | $\kappa - Q$ -Fuzzy Orders Relative to $\kappa - Q$ -Fuzzy Subgroups and Cyclic group Fundamental Various Aspect                                  | A. Prasanna, M. Premkumar, S. Ismail Mohideen, Dhirendra Kumar Shukla                          | Materials Today: Proceedings                          | 2214-7853        |                         |  |
| 63 | On Fundamental Algebraic Structures on Direct Product of Complex Anti $\omega - Q$ -Fuzzy Subrings  | Dr. A. Prasanna, M. Premkumar and S. Ismail Mohideen   | International Journal of Modern Agriculture           | 2305-7246        |                         |  |
| 64 | D - Eccentric Domination in Graphs  | A.Prasanna, N. Mohamedazarudeen  | Advances and Applications in Mathematical Sciences    | ISSN - 0974-6803 |                         |  |
| 65 | Just Chromatic Excellence in Intuitionistic Fuzzy Graphs  | M.A. Rifayathali, A. Prasanna, S. Ismail Mohideen  | Advances and Applications in Mathematical Sciences    | ISSN - 0974-6803 |                         |  |
| 66 | On $\kappa - Q$ -Anti Fuzzy Normed Rings  | A. Prasanna, M. Premkumar, P.Sugapriya, M.Kannan and A.Arul Staline                            | Design Engineering (Toronoto)                         | 0011-9342        | Scopus                  |  |
| 67 | Fundamental Algebraic Properties on $\kappa - Q - \text{Anti}$ Fuzzy Normed Prime Ideal and $\kappa - Q - \text{Anti}$ Fuzzy Normed Maximal Ideal | M. Premkumar , M. Bhuvaneswari, E. Manikandan and Dr. A. Prasanna                              | Turkish Online Journal of Qualitative Inquiry (TOJQI) | 1309-6591        | Scopus                  |  |
| 68 | A Study on Complex Anti Fuzzy Subring   | A. Prasanna , M. Premkumar , K. Malathi , P. Sugapriya and A. Arul Staline                     | Advances in Mechanics                                 | 1687-8140        | Scopus                  |  |
| 69 | On Fundamental Algebraic Attributes of $\omega - Q$ -Fuzzy Subring, Normal Subring and Ideal  | M. Premkumar , A. Prasanna, Amit Kumar Sharma, M. S. Karuna, Arvind Sharma and Moti Lal Rinawa | International Journal of Mechanical Engineering       | 0974-5823        | Scopus                  |  |
| 70 | On Product of Complex Anti Fuzzy Subring  | M. Premkumar , Padmakar Shahare, A. Prasanna , Fithriyah Indah Nur Abida and M. Dhivya         | International Journal of Special Education            | 0827-3383        | Scopus & Web of Science |  |
| 71 | Intuitionistic Fuzzy Second Minimum Spanning Tree for Solving and   | A.Prasanna, S. Sharmila Banu   | Advances in Mechanics                                 | 1000-0992        | Scopus                  |  |

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|----|--|--|--|-----------------------|---------------------------------|--|
|    | Assignment Problem with Optimum Solution   |  |  |                       |                                 |  |
| 72 | On Fundamental Algebraic Structures of $\kappa$ - $Q$ -Anti Fuzzy Normed Rings   | Dr. A. Prasanna, M. Premkumar, Dr. S. Ismail Mohideen, Dr. M. A. Rifayath Ali                                | International Journal of Advance and Innovative Research   | 2394 - 7780           |                                 |  |
| 73 | On fundamental algebraic properties of complex anti-Q fuzzy subrings   | Dr. M. A. Rifayath Ali, Dr. A. Prasanna, Dr. S. Ismail Mohideen  | Neuro Quantology   | 1303-5150             | Scopus                          |  |
| 74 | A Doubt $\mathbb{K} - \mathbb{Q}$ -Bipolar Fuzzy BCI-Ideals and Doubt $\mathbb{K} - \mathbb{Q}$ -Bipolar Fuzzy BCI-Implicative Ideals in BCI-Algebra   | M. Premkumar , A. Prasanna , H. Girija Bai , Dharendra Kumar Shukla, Ashwani Kumar Garg , S. Ismail Mohideen | Journal of Pharmaceutical Negative Results   | 2229-7723             | Web of Science, ESCI and Scopus |  |
| 75 | On Product of Doubt $\psi - \bar{Q}$ - Fuzzy Subgroup  | A. Mohamed Ismail, M. Premkumar, A. Prasanna , S. Ismail Mohideen and Dharendra Kumar Shukla                 | Smart Innovation Systems and Technologies (IOT with Smart Systems)                                       | 2190-3026             | Scopus (Springer)               |  |
| 76 | On Characteristics of $\kappa - Q$ - Fuzzy Translation and Fuzzy Multiplication in T-Ideals in T-Algebra   | M. Premkumar, A. Prasanna, Dharendra Kumar Shukla and S. Ismail Mohideen                                     | Smart Innovation Systems and Technologies(IOT with Intelligent Applications)                             | 2190-3026             | Scopus (Springer)               |  |
| 77 | On $\mathbb{K}$ - $\mathbb{Q}$ -Bipolar Fuzzy BCI-Ideals   | M. Premkumar , M. A. Rifayathali , A. Prasanna, A. Nagaraj   | Proceedings-International Conference on Advances in Science, Engineering and Technology, River Publisher | E-ISBN: 9788770227896 |                                 |  |
| 78 | <b>One DBT Star College Scheme group project is converted into a research article and published “Statistical Survey and Analysis on Higher Education among the Youths in Adopted Villages”</b> | M Mukesh Kannan, R Vivekananthan, R Barath, K Kumaresan, KS Muhammed Hunaif, M Rajkumar and Dr. A Prasanna.  | International Journal of Advanced Multidisciplinary Research and Studies                                 | 1095-1097             | 2023                            |  |

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| 79 | <b>Challenges in Learning Mathematics: A Study from the Perspective of School Student's</b> | A.Prasanna,<br>S.Ismail<br>Mohideen and<br>G.Sivanesan | International Journal of Advanced Multidisciplinary Research and Studies | ISSN: 2583-049X | 2023 |  |
|----|---|--|--|-----------------|------|--|

### Papers Presented in Seminars / Conferences:

1. *"Applications of Operations Research" – At **One Day Seminar** on Tax Reforms With Special Reference to VAT, Department of Economics, Jamal Mohamed College(Autonomous), Tiruchirappalli-20, on 22<sup>nd</sup> March 2005.*
2. *"Impact of Child Labor on Education a Statistical Analysis at **UGC Sponsored State Level Seminar** on Socio Economic Dimensions of Child Labor, Department of Economics, Jamal Mohamed College(Autonomous), Tiruchirappalli-20,September 27-28,2005.*
3. "Mathematics of Finance And Insurance – a View", at **State Level Seminar** on Advanced Techniques Involved in Graphs and Matrices, Department of Mathematics, Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur, on 14<sup>th</sup> February 2009.
4. "Controlling Human Moods by Fuzzy Logic" at **UGC Sponsored National Seminar** On Fuzzy Mathematical Modeling in Agriculture and Waste Land Development Khader Mohideen College, Adirampattinam on 28,29 March 2009.
5. Role of Social Responsibility in Women at the **UGC Sponsored Two Day National Seminar** on Social Entrepreneurship and Corporate Social Responsibility (CSR) – Role in Women Development at Department Of Women Studies, Bharathidasan University, Trichy-23 on March 27,28 -2010.
6. "Physical Problems of Children With Special Needs With Special Reference From Mental Retardation at **TANSACS Sponsored State Level Seminar** on Health Issues of Youth in India: Problems and Prospects at Department of Social Work, Jamal Mohamed College, Tiruchirappalli, on 20.12.2010.
7. Paper Presented at One Day **State Level Seminar** on Investment Opportunities and Challenges at Department of Commerce, Jamal Mohamed College, Tiruchirappalli, on 12<sup>th</sup> January 2011.
8. "The Insurance Schemes Calculations – a View" at **National Conference** on Management in the Age of Innovation at Jamal Institute of Management, Jamal Mohamed College, Tiruchirappalli, on 25<sup>th</sup> January, 2011.
9. "Interest Calculation In The Investment – A View" at **National Conference** on Management in the Age of Innovation at Jamal Institute of Management, Jamal Mohamed College, Tiruchirappalli, on 25<sup>th</sup> January, 2011.
10. "An Empirical Model of Application of Matrix in Cryptography" in the **UGC Autonomous Funded International Conference** on Mathematics and its Applications at Islamiah College, Vaniyambadi on August 29, 2012.

11. "Cryptography Encryption and Decryption Using Matrix in Unsymmetrical Image" in the **National Seminar** on Algebra and Graph Theory at Srinivasan College of arts and Science, Perambalur on 26.09.2012.
12. "Matrices in Cryptography" in the **National Seminar** on Algebra and Graph Theory at Srinivasan College of Arts and Science, Perambalur on 26.09.2012.
13. "A Correlation and Regression study on the ground water of vaiyampatty village" in the **National Seminar** on Algebra and Graph Theory at Srinivasan College Of Arts and Science, Perambalur On 26.09.2012.
14. "The Practical Application of Cryptography by Using Matrices in Image Identification and Road Mapping" on **International Conference** on Mathematics A Global Scenario D-G Vaishav College Chennai on 13, 14. 12.12.
15. "Quran Paved The Way For Algebraic Growth" On **International Seminar** on Hadis and Modern Science at Jamal Mohamed College on 19th &20th February 2013.
16. A.Prasanna, M.A.Rifayathali and S. Ismail Mohideen, Hesitancy Fuzzy Graph Coloring, **International Conference** on Mathematical Methods and Computation, Department of Mathematics, Jamal Mohamed College, Trichy on 11-12-2017.
17. A.Prasanna, C.Gurubaran and S. Ismail Mohideen, Split and Non-Split Domination Number in Bipolar Fuzzy Graphs, **International Conference** on Mathematical Methods and Computation, Department of Mathematics, Jamal Mohamed College, Trichy on 11-12-2017.
18. A.Prasanna, M.Premkumar and T. Kalaivani, Anti Fuzzy d-Ideals in d-Algebra, **International Conference** on Mathematics: Pure, Applied and Computation, Mahendra Institute of Engineering and Technology, Namakkal during 13<sup>th</sup> to 15<sup>th</sup> February 2018.
19. "Hesitancy Fuzzy Magic Labeling Graph", at **International Conference** on Applied Analysis, Mathematical Modeling and Computing Techniques (ICAAMMCT) organized by Department of Mathematics, Gandhigram Rural Institute (Deemed to be University), Gandhigram-624302 on March 15<sup>th</sup>– 17<sup>th</sup>, 2018.
20. Anti Q-L Fuzzy M-Subgroups, Second **International Conference** on Recent Innovations in Arts, Science and Technology, Lord Venkateshwara Engineering College, Kancheepuram, 27<sup>th</sup> July 20218.
21. *"Just Chromatic excellence in anti-fuzzy graph", at **International Conference On Mathematical Methods and Computation (ICOMAC 2019)**, organised by PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 20-21 February 2019.*
22. Algebraic Properties on w- Fuzzy Translation and Multiplication in BP Algebras at **International Conference** on Advanced IT, Engineering and Management organized by IT Department of AIMIT, St Aloysius College, Mangaluru on 22<sup>st</sup> & 22<sup>nd</sup> November 2019.

23. Dr. A. Prasanna and M. Premkumar, Algebraic Properties of  $\omega$ -Fuzzy in CI-Algebras, **International Conference** on Mathematical Methods & Computation organised by PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 19-02-2020
24. Dr. A. Prasanna and N. Mohamed Azarudeen, D-Eccentric Domination in Graphs, **International Conference** on Mathematical Methods & Computation organised by PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 19-02-2020
25. M.Premkumar and A.Prasanna, On Algebraic attributes on k-Q-Fuzzy orders relative to k-Q-Fuzzy subgroups in cyclic group, **International Virtual Conference** on Reconceptualizing in Mathematical Sciences and English Language/ Literature, Hindusthan College of Engineering and Technology from 28.08.2020 to 29.08.2020.
26. M.Premkumar and A.Prasanna, On Elemental Algebraic Characteristic of Fuzzy Subring, Normal Subring and Ideal, **International Virtual Conference** on "Progress in Mathematics towards Industrial Applications, SRMIST, Chennai during 6<sup>th</sup> and 7<sup>th</sup> November 2020.
27. M.Premkumar, A.Prasanna, Dharendra Kumar Shukla, S.Ismail Mohideen, On Characteristics of K-Q- Fuzzy Translation and K-Q- Multiplication in T-Ideal in T-Algebras, 6<sup>th</sup> **International Conference** on Information and Communication Technology for Intelligent Systems (through Digital Platform), Ahmedabad on 22.04.2022 and 23.04.2022.
28. A.Mohamed Ismail, M.Premkumar, A.Prasanna, S.Ismail Mohideen, Dharendra Kumar Shukla, On Product of Doubt  $\psi$ -Q-Fuzzy Subgroup, 6<sup>th</sup> **International Conference** on Information and Communication Technology for Intelligent Systems (through Digital Platform), Ahmedabad on 22.04.2022 and 23.04.2022.
29. A.Prasanna, Algebraic properties on K-Q Bipolar fuzzy BCI Implicative Ideals in BCI Algebra, 4<sup>th</sup> **International Conference** on Recent Scientific and Technological Trends, Maa Shakumbari Trust, Greater Noida, UP, India on 23.04.2022 and 24.04.2022.
30. A.Prasanna, On Bipolar Fuzzy BCI-Ideals, **International Conference** on Advances in Science, Engineering and Technology, Cheran College of Engineering, Karur from 27<sup>th</sup> to 28<sup>th</sup> May 2022.
31. A.Prasanna, On K-Q- Bipolar Fuzzy BCI-Ideals, **International Conference** on Advances in Science, Engineering and Technology, Cheran College of Engineering, Karur from 27<sup>th</sup> to 28<sup>th</sup> May 2022.
32. A.Prasanna, On Doubt Algebraic Structures of K-Q- Fuzzy Normed Rings, **International Conference** on Recent Advances in Material Science and Computational Techniques, Manipal University Jaipur, Rajasthan on 30.05.2022 and 31.05.2022.
33. A. Prasanna, On Computative Property of  $\mu$ -Anti-Fuzzy Subgroups, **International Conference** on Continuity, Consistency and Innovation in Applied Sciences and Humanities, 16 to 17 -09-2022.

34. Dr. Prasanna A., Dr. Rifayathali M. A., Dr. Premkumar M., Estimation of Radar Signal Parameters for Creating Electronic Order of Battle Records, **World Congress - Systems Theory, Algebraic Biology, Artificial Intelligence: Mathematical Foundations and Applications, Russian Academy of Sciences**, June 26-30, 2023.
35. A.Prasanna, Security in Internet of Things Systems, World Innovation & Technology Expo & Investment Summit 2023 under the Aegis of Pentagram Technologies, India & Anakosmos Group, Ghana& UK and Other Partners held during August 10-12, 2023.

**Conference / Seminar Attended Without Presenting Papers:**

1. **State Level Seminar** on “Mathematical Methods in Social Sciences” Organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 and **Sponsored by University Grants Commission, New Delhi** During September 8 – 9, 2004.
2. **Three Days Work Shop** On Soft Computing at Department of Mathematics, National Institute of Technology, Tiruchy – 15 on 15-17 November 2007.
3. **National Seminar** on Fuzzy Mathematics and its Applications at School of Mathematics, Alagappa University, Karaikudi on March 09, 2009
4. **UGC Sponsored National Conference** on Advanced Computing Conducted by Department of Computer Science, Jamal Mohamed College, Trichy-20 On March 27 & 28, 2009.
5. **International Conference** on Operations Research Application in Engineering and Management (ICOREM) at Department of Management Studies, Anna University, Tiruchy on May 27, 28 & 29, 2009
6. **UGC Sponsored International Conference** on Mathematical Methods and Computation at Department of Mathematics, Jamal Mohamed College, Trichy-20 on July 24&25, 2009.
7. **UGC Sponsored National Seminar** on Applications of Algebra and Number Theory at Department of Mathematics, National College, Tiruchy -01 on December 04 &05,2009
8. **National Conference** on Recent Trends in Fluid Dynamics (NCRTFD – 2010) Conducted by Sri Ramakrishna Mission Vidyalaya College of Arts & Science , Coimbatore on 19.02.2010.
9. **UGC Sponsored State Level Seminar** on Examination Reforms at Jamal Mohamed College, Trichy-20 on March 12, 2010.
10. One Day **National Level Seminar** on Graph Theory, Algorithms and Modeling at Department of Mathematics, Jamal Mohamed College, Trichy-20 on 19<sup>th</sup> March 2010.
11. **UGC Sponsored Two Day National Seminar** on Social Entrepreneurship and Corporate Social Responsibility (CSR) – Role in Women Development at Department Of Women Studies, Bharathidasan University, Trichy-23 on March 27,28 -2010.

12. **NAAC Sponsored National Level Seminar** on Quality Enhancement in Teaching, Research And Extension in Higher Education Institutions – Prospects and Problems Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on April 15 and 16, 2010.
13. **Seminar** on Creating Competitiveness to Excel in Higher Education – A TQM approach Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 8<sup>th</sup> December 2010.
14. **UGC Sponsored One Day Seminar** on Empowerment of Persons With Special Needs at Jamal Mohamed College, Trichy-20 on 22<sup>nd</sup> December 2010.
15. **Work Shop** on Mathematical Modeling at Department Of Mathematics, Jamal Mohamed College, Trichy-20 on 19.01.2011 – 25.01.2011.
16. **UGC Sponsored One Day Seminar** on Disability Rights and Laws for Students With Disability in Higher Education at Government Arts College, Tiruchy -22 on 09.02.2011.
17. **Work Shop** on LATEX organized by the ISTE chapter and Department of Information Technology, Dr.Sivanthi Aditanar College of Engineering, Tiruchendur on 15<sup>th</sup> November 2011.
18. **UGC Sponsored One Day National Seminar** on Applications of Mathematics at Department of Mathematics, Jamal Mohamed College, Trichy-20 on 22<sup>nd</sup> February 2012.
19. **UGC Sponsored One Day National Seminar** on Examination Reforms at Jamal Mohamed College, Trichy-20 on 24<sup>th</sup> February 2012.
20. **National Seminar cum Panel Discussion on Differently Abled: Challenges and opportunities in Higher Education** organized by Bharathidasan University, Centre for differently abled persons in association with Jamal Mohamed College at Jamal Mohamed College, Trichy-20 on 6<sup>th</sup> March 2012.
21. **One day Seminar** Teaching, Learning and Research in Higher Education –Excellence and Beyond Excellence Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 7<sup>th</sup> March 2012.
22. **UGC Sponsored** (Autonomous Grant) One Day **National Seminar** On Discrete Mathematics and its Applications at Department of Mathematics, Jamal Mohamed College, Trichy-20 on 09<sup>th</sup> March 2013.
23. **Leadership Training Program** Organized by Rotaract Club of Jamal Mohamed College at Jamal Mohamed College on 1<sup>st</sup> September 2013.
24. **International Conference** on Mathematical Methods And Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 13<sup>th</sup> & 14<sup>th</sup> Feb. 2014.
25. **State Level Workshop for Guide Teachers to the 22<sup>nd</sup> National Children Science Congress**, Catalyzed and Supported By Department of Science and Technology, Govt. Of India, Organized by Tamilnadu Science Forum at Parisutham College Of Engineering and Technology, Tanjore on 19<sup>th</sup> And 20<sup>th</sup> July 2014.



26. Special One Day **“Interaction with IISER Scientists”** Program Organized at National College, Trichy organized by Anna Science Centre – Planetarium, Trichy on 6<sup>th</sup> August 2014.
27. **ICMR Sponsored International Seminar** on Recent Trends in Computational Intelligence Techniques for Big Data Analysis at PSNA College Of Engineering, Dindigul during 27<sup>th</sup> And 28<sup>th</sup> August 2014.
28. **Leadership Training Seminar** Organized by Rotaract Club of Jamal Mohamed College at Jamal Mohamed College On 21<sup>st</sup> September 2014.
29. a **Four day workshop on Latex and SPSS** at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli from 20.09.2014 to 25.09.2014.
30. **International Conference** on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 22<sup>nd</sup> and 23<sup>rd</sup> February 2015.
31. **One day State level seminar and workshop** on Personality development and Fashion Portfolio at PG Department of Fashion Technology, Jamal Mohamed College, Tiruchirappalli on 4<sup>th</sup> March 2015.
32. **One Day Workshop on “Free Open Source Software”** at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 12.10.2015.
33. **One Day Inter-Collegiate Workshop** on “E-Content Development for Teaching – Learning Process” Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 22.12.2015.
34. **National Conference on Graph Theory, Fuzzy Graph Theory and their Applications** at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 10.02.2016 and 11.02.2016.
35. **Leadership Training Seminar –Shyla’16** Organized by Rotaract Club of Jamal Mohamed College at Jamal Mohamed College 9<sup>th</sup> October 2016.
36. **UGC Sponsored Six Days Work Shop on Research Methodology and SPSS** at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli from 20<sup>th</sup> to 25<sup>th</sup> October 2016.
37. **One Day Workshop on The Role of a Teacher in the Present Scenario**, Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 03.12.2016
38. **Three Days NLP – Based Faculty Empowerment Programme** Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 17<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> June 2017.
39. **International Conference** on Mathematical Methods and Computation, Department of Mathematics, Jamal Mohamed College, Trichy on 11-12-2017.
40. Three Days **International Conference** and Seminar on Mathematics and Computer Sciences at Mahendra Institute of Engineering and Technology, Namakkal during 13<sup>th</sup> to 15<sup>th</sup> February 2018.

41. One day **Workshop on “ Writing Winnable Project Proposals”** Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 23<sup>rd</sup> June 2018.
42. **UGC CPE Sponsored** Two-Day workshop on Professional Development for Academic Leadership in Curriculum Design- organized by Curriculum Development Cell, Jamal Mohamed College, Tiruch on 18-01-2019 to 19-01-2019.
43. **Workshop** on “Quality Enhancement of Research: New Paradigm in Trans-disciplinary approaches and IPR” organized by IQAC and IIC, Jamal Mohamed College, Trichy on 6<sup>th</sup> September 2019.
44. Staff Enrichment Programme on Ownership Culture Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 14<sup>th</sup> June 2019.
45. Workshop on “Quality enhancement of Research: New Paradigm in Trans-disciplinary approaches and IPR” Organized by **IQAC**, Jamal Mohamed College, Trichy-20 on 6<sup>th</sup> September 2019.
46. **Orientation Programme** on Preparing Course Outcomes in the Curriculum Design organized by Curriculum Development Cell, Jamal Mohamed College, Tiruchy on 03.01.2020.
47. **One day Basic Training Programme on ”Human Rights ”** Sponsored by National Human Rights Commission, Organized by Department of Social Work, Jamal Mohamed College, Trichy on 12.02.2020
48. **International workshop** on Python Programing, Department of Mathematics, Jamal Mohamed College, Trichy on 18.02.2020
49. **International Conference** on Mathematical Methods & Computation (ICOMAC 2020), Department of Mathematics, Jamal Mohamed College, Trichy on 19.02.2020
50. **International** Online Research Methodology Workshop, Rest Society for Research International, Krishnagiri on 12-04-2020-14-04-2020
51. **National** Level Webinar on Impact of COVID on Economy and Management of Fitness during this period, Shasun College, Chennai on 04-05-2020
52. **National** Webinar on Joy of Orderly Living, Kaamadhenu Arts and Science College, Erode on 05-05-2020
53. **National** Level NAAC Awareness Programme for Faculty (Online), Marathwada Mitra Mandal Institute of Technology, Pune on 08-05-2020-14-05-2020
54. **National** Level Online Panel Discussion on Impression of COVID-19: From Layman to Business Man, V.V. Vanniaperumal College for Women, Virudhumagar on 09-05-2020
55. **National** Level Faculty Awareness Program on NAAC Accreditation (Online), RD’s Shri Chhatrapati Shivajiraje College of Engineering, Pune on 12-05-2020

56. **National** Level Webinar on Personal Effectiveness- Need of the Hour, SIIMS, Coimbatore on 14-05-2020
57. **National** Level Webinar on “IPR and Patent Drafting”, St. Peter’s Institute of Higher Education and Research, Chennai on 14-05-2020
58. **National** Level Webinar on Eight Limbs of Yoga (Astanga Yoga), Tamilnadu Teachers Education University, Chennai on 14-05-2020
59. **National** Level Webinar, Nehru Arts and Science College, Coimbatore on 14-05-2020
60. **National** Level Webinar on Research Publication: Skills, Ethics and Misconducts, Kumaraguru College of Technology, Coimbatore on 15-05-2020
61. **National** Level Webinar on Maintaining the Academic interest of Teachers and Students: During and After Lockdown, Shri Jai Narayan Mishra PG College, Lucknow on 16-05-2020
62. **National** Level Webinar on How to prepare for Competitive Exams, Trinity College for Women, Namakkal on 18-05-2020
63. Three days **National** level online course on Operations Research, V.H.N.S.N.COLLEGE, VIRUDHUNAGAR on 18-05-2020 to 20-05-2020
64. **State** Level Online Workshop on Personality Development – Unlearn to Learn the Skill, National College, Trichy on 19-05-2020
65. **National** Level Webinar on Applications of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi on 19-05-2020
66. **National** Level Webinar on Taking Research forward during the Pandemic, Loyola College, Chennai on 20-05-2020
67. **National** Level Webinar on Quality Metrics in Higher Education, Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli on 21-05-2020
68. **National** Level Webinar on " Intellectual Property Rights ", Sengamala Thaayar Educational Trust Women’s College, Mannargudi on 22-05-2020
69. **National** Level One day webinar on Graphs In Life, Don Bosco College of Arts and Science, Thoothukudi on 29-05-2020
70. **International Webinar** entitled “ Context Based Pedagogy and Assessment in Higher Education on 03.06.2020
71. **International Webinar** on How do to you write a High impact factor paper?, Mahatma Gandhi College, Kerala on 07.06.2020
72. **National Webinar** on Algebra and Analysis, R V Government Arts College, Chengalpattu on 03.07.2020
73. Live **Webinar** on Inner Product Space, Urumu Dhanalakshmi Colleger, Trichy on 06.07.2020.

74. **International Webinar on Algebra, Analysis and Topology**, Bankura University on 13 & 14<sup>th</sup> August 2020
75. **International Webinar on Recent Advances of Operations Research in Natural and Social Sciences**, Lanka Mahavidyalaya, Assam on 18.09.2020
76. **Five days TEQIP –III Sponsored Workshop on Magical Mathematics and Optimization**, Vivekananda Institute of Technology, Jaipur from 21.09.2020 to 25.09.2020.
77. **Webinar Series:3 Linear Algebra, RSET and Centre for Topology and Applications** from 7<sup>th</sup> to 9<sup>th</sup> October 2020.
78. **Webinar Series:4 Stochastic Process and Mathematical Modelling**, RSET and Centre for Topology and Applications from 14<sup>th</sup> to 16<sup>th</sup> October 2020.
79. **Webinar on Cryptography and History of Mathematics**, Khalsa College, Patiala on 19<sup>th</sup> October 2020.
80. NIRF Workshop, ICT Academy on 05.11.2020.
81. National Level Webinar on Mathematical Software Workshop, Universal Engineering College, Kerala, 02.06.2021 – 06.06.2021.
82. **National Level Workshop on NIRF India Rankings-2022**, IAE, Hyderabad, 05-01-2022 and 06-01-2022.
83. **Webinar on “How to handle online classes effectively?”**, Vellore Institute of Technology, Chennai on 10.06.2021.
84. **Science Academies Virtual Lecture Workshop on Mathematical biology**, Hindusthan College of Arts & Science, Coimbatore, 10-01-2022 to 12-01-2022
85. One Day **Workshop on Astronomy**, Organized by PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli on 31-08-2021.
86. **Science Academies’ Virtual Lecture Workshop on “Differential Equations and its Application”**, PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli on 21-12-2021 and 22-12-2021.
87. **District Level Workshop for Guide Teachers on the Theme Understanding Eco System for Health and Well Being for the 30<sup>th</sup> National Children’s Science Congress-2022** held at Jamal Mohamed College, Trichy on 14.09.2022.
88. **Zonal Workshop (East), 30th National Children Science Congress-2022**, Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at Trichy on 28.10.2022.
89. **Workshop on Fundamentals of Probability Theory and Detection Estimation Theory organized by PG & Research Department of Mathematics**, Jamal Mohamed

College (Autonomous), Tiruchirappalli, Pentagram Technologies, India and Pentagram Research UK Ltd., Birmingham, UK from 06.10.2022 to 08.10.2022.

90. **International Conference** on Mathematical Methods and Computation (ICOMAC-2022), held at Jamal Mohamed College, Tiruchirappalli, 21.12.2022 to 22.12.2022
91. **International Workshop** on Big Data Analytics using Distributed Computing held at Jamal Mohamed College, Tiruchirappalli, 23.12.2022
92. **IP Awareness/ Training Program under National Intellectual Property Awareness Mission organized by Intellectual; Property Office, India on 11.01.2023.**
93. **International Conference** on Applied and Industrial Mathematics (Virtual Conference) held at Sharda University from 24<sup>th</sup> to 26<sup>th</sup> March 2023.
94. **Thirty Fourth Mid-Year Meeting of the Indian Academy of Sciences held in New Biological Sciences Auditorium, IISc, Bengaluru during 07-08 July 2023 and took part in the Scientific Programme of lectures and an interaction meeting held on 6<sup>th</sup> July with Fellows and Educational Panel of the Academy.**
95. **Science Academies' Virtual Lecture Workshop** on "Mathematical Biology", PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli on 18.03.2024 and 19.03.2024.

#### **Orientation / Refresher Courses Attended:**

1. The **Faculty Orientation Program** on Accommodations for Students With Disabilities at Department of Rehabilitation Science, Holy Cross College, Trichy on 01.12.2010.
2. **UGC Sponsored Orientation Programme, UGC Human Resource Development Centre**, Bharathidasan University, Trichirappalli- 620 023 from 23.08.2017 to 19.09.2017.
3. **UGC Sponsored Refresher Course** in Mathematics and Statistics, **UGC Human Resource Development Centre**, Bharathiar University, Coimbatore from 13-02-2019 to 05-03-2019.
4. **UGC Sponsored Online Refresher Course** in Mathematics & Statistics, **UGC- HRDC**, Bharathidasan University, Trichy, 25-11-2020 to 08-12-2020.
5. **Refresher Course in Applicable Mathematics**, Teaching Learning Centre, Ramanujan College in collaboration with Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru during 26 July - 08 August 2022.

## FDP Attended

| S.No. | FDP  | Institution where attended and Place   | Date(s)                      |
|-------|--|--|------------------------------|
| 1.    | Faculty Development Programme on Data Science USING LaTeX  | D.K.M. College for Women, Vellore in association with Spoken Tutorial, IIT Bombay (Online) | 30-04-2020-04-05-2020        |
| 2.    | Faculty Development Programme on Data Science USING Scilab   | D.K.M. College for Women, Vellore in association with Spoken Tutorial, IIT Bombay (Online) | 30-04-2020-04-05-2020        |
| 3.    | National Level Online Interdisciplinary Faculty Development Programme on Inclusive Indian Traditions for a Holistic Global Education | PSGR Krishnammal College for Women, Coimbatore   | 03-05-2020-09-05-2020        |
| 4.    | Faculty Development Programme on Data Science USING R  | Jamal Mohamed College, Trichy in association with Spoken Tutorial, IIT Bombay (Online)     | 11-05-2020 – 14-05-2020      |
| 5.    | Faculty Development Programme on Data Science USING Geo Gebra  | Jamal Mohamed College, Trichy in association with Spoken Tutorial, IIT Bombay (Online)     | 11-05-2020 – 14-05-2020      |
| 6.    | Faculty Development Programme on Fuzzy Sets and Systems  | Patrician College of Arts and Science, Chennai (Online)                                    | 16.05.2020                   |
| 7.    | 10 days FDP on Innovative Knowledge tuning for Academicians  | St. Peter's Institute of Higher Education and Research, Chennai (Online)                   | 18.05.2020-27.05.2020        |
| 8.    | FDP on Next Generation Intelligence  | St. Peter's Institute of Higher Education and Research, Chennai (Online)                   | 20-05-2020-25-05-2020        |
| 9.    | Faculty Development Programme on Online Teaching Methods   | Nirmala College for Women, Coimbatore (Online)   | 20-05-2020 &21-05-2020       |
| 10.   | Faculty Development Programme on Real Life Applications of Fuzzy Mathematics   | St. Peter's Institute of Higher Education and Research, Chennai (Online)                   | 22-05-2020                   |
| 11.   | Faculty Development Programme on MA8551 Algebra and Number Theory  | Ramco Institute of Technology, Rajapalayam (Online)  | 26-05-2020 &27-05-2020       |
| 12.   | Faculty Development Programme on Descriptive Statistics through R-Programming  | KPR Institute of Engineering and Technology, Coimbatore                                    | 26-05-2020-28-05-2020        |
| 13.   | <b>Two Weeks Faculty Development Programme on Managing Online Classes and Co-Creating MOOCS:2.0</b>                                  | <b>Teaching Learning Centre, Ramanujan College, University of Delhi</b>                    | <b>18-05-2020-03-06-2020</b> |
| 14.   | 7 Day FDP on Institutional Benchmarking of Best Practices.   | Shree Mallikarjun & Shri Chetan Manju Desai College, Canacona                              | 08.06.2020-14.06.2020        |
| 15.   | Online FDP on Pure Applied Mathematics   | Jamal Mohamed College, Trichy-20   | 11.06.2020-17.06.2020        |
| 16.   | International Online FDP on Digital Tools for Researchers and ICT Online Tools in Teaching   | Hindusthan College of Arts and Science, Coimbatore   | 20.07.2020-24.07.2020        |
| 17.   | Five days Faculty Development Programme on Mathematical Concepts by using Free Open Source Softwares                                 | BMSIT &M, Bengaluru  | 21.07.2020-25.07.2020        |

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|-----|--|---|------------------------------|
| 18. | Faculty Development on E-Content Development   | IQAC, Jamal Mohamed College, Trichy-20  | 30.06.2020-04.07.2020        |
| 19. | Online Faculty Improvement Programme on Advances in Linear Algebra and Differential Equations              | Jamal Mohamed College, Trichy-20  | 09.07.2020 & 10.07.2020      |
| 20. | One Week FDP on Scientific Writing Using Latex   | BGSB University, Rajouri  | 05.10.2020-09.10.2020        |
| 21. | <b>Online FDP on Capacity Building</b>   | <b>AICTE Training and Learning (ATAL) Academy, New Delhi, University of Petroleum and Energy Studies</b>  | <b>12.10.2020-16.10.2020</b> |
| 22. | Faculty Development Programme on Algebra and Analysis  | PG & Research Department of Mathematics (Under DBT Star College Scheme), Jamal Mohamed College (Autonomous), Tiruchirappalli  | 09-02-2021 to 11-02-2021     |
| 23. | Virtual Short Term Training Program on Data Science and Statistical Applications                           | DEPARTMENT OF STATISTICS BHARATHIAR UNIVERSITY, COIMBATORE -641 046 in association with PG & RESEARCH DEPARTMENT OF MATHEMATICSq JAMAL MOHAMED COLLEGE (Autonomous), TIRUCHIRAPPALLI – 620 020, Under DBT Star College Scheme | 15.03.2021 to 22.03.2021     |
| 24. | National Level Online FDP on Number Theory and Its Application   | Gates Institutes of Technology, Andhra Pradesh  | 14.06.2021-19.06.2021        |
| 25. | Six Day online FDP on Application of Mathematics in Science and Technology                                 | Narasu's Sarathy Institute of Tehnology, Salem  | 21.06.2021-26.06.2021        |
| 26. | Three Days National Level Virtual FDP on Graph Theory,   | Vellalar College for Women, Erode   | 21-12-2021 to 23-12-2021     |
| 27. | Faculty Development Programme on Outcome Based Education   | Rajeev Gandhi College of Management Studies, Ghansoli   | 13-01-2022 to 19-01-2022     |
| 28. | One week Faculty Development Programme on ICT Tools for E-Content Development                              | PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli  | 24-01-2022 to 29-01-2022     |
| 29. | Seven Day Online Workshop on the 7 Assessment criteria for NAAC Accreditation                              | IQAC, SKBR Govt. Degree College, Macherla   | 21-02-2022 to 28-02-2022     |
| 30. | Five Days National Level FDP on Mathematical Modelling   | Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad   | 06-04-2022 to 11-04-2022     |
| 31. | One Week International Faculty Development Programme on Frontiers of Data Science in Trending Technologies | Mahatma Gandhi Institute of Technology, Hyderabad   | 09.05.202-13.05.2022         |

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| 32. | Faculty Development Programme in “ Free/ Libre and Open Source Software for Education in NAAC/NBA Accreditation and NIRF Ranking | Spoken Tutorial, IIT Bombay’s Nodal Resource Centre Hindusthan College of Arts & Science, Coimbatore | 23.03.2023                                     |
| 33. | 5-Day FDP “ Exploring the Scope of Engineering Mathematics in Control System and Signal Processing                               | Vellore Insitute of Technology, Chennai  | 12 <sup>th</sup> to 16 <sup>th</sup> June 2023 |
| 34. | One week FDP on Mathematics in Real. Applied and Computational Domains   | Sathyabama University, Chennai   | 3 <sup>rd</sup> to 8 <sup>th</sup> July 2023.  |
| 35. | One week FDP on Pure and Applied Mathematics   | PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli       | 03-02-2024 to 09-02-2024                       |

### Resource Person:

1. Acted as **Presiding Officer** for the Ordinary Elections -2011 Conducted by the Tiruchirappalli City Corporation on 17.10.2011
2. Conducted the **TANCET Coaching Class** Organized by the Anti-Dowry Association, Jamal Mohamed College, Trichy-20 during February 2012.
3. Worked as **Part Time Lecturer** in the Department of Computer Application & Engineering at **Bharathidasan University**, Tiruchy -24 From August 2012 to November 2012.
4. Delivered a **Lecture On Stress Management** to the Higher Secondary School Students at Tiruchirappalli Schools Organized by **Bharathi IAS Academy And Department of Social Science, Bharathidasan University** Tiruchirappalli.
5. Delivered a **Lecture as a Resource Person** in the **District Level Workshop for Guide Teachers To The 22<sup>nd</sup> National Children Science Congress**, Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at ER Higher Secondary School, Trichy on 28.08.2014.
6. Delivered a **Lecture as a Resource Person** in the **District Level Workshop for Guide Teachers To The 22<sup>nd</sup> National Children Science Congress**, Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at John Britto School, Trichy on 01.09.2014.
7. Acted as **Evaluator** in **22<sup>nd</sup> National Children Science Congress-2014**, Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at Jamal Mohamed College, Trichy on 22 & 23.11.2014.
8. Acted as a **Judge in Business Quiz in the State level Intercollegiate Meet- EXOBIZ-2K15** at Department of Business Administration, Jamal Mohamed College, Trichy on 28.02.2015.



9. Delivered a **Lecture on Mathematics Projects and Mathematics Exhibition Ideas to In-service training for Mathematics BT Teachers** (Spell-II) conducted by Rashtriya Madhyamik Shiksha Abhiyan, Trichy
10. Delivered an **Inaugural Address** in the “Math Integral0”- Mathematics Association Inauguration at Department of Mathematics, Theivanai Ammal College for Women, Villupuram on 21.08.2015.
11. Conducted the **Bank Coaching Class – “Quantitative Ability”** Organized by the Guidance and Counseling Centre, Jamal Mohamed College, Trichy-20 on 26.08.2015.
12. Acted as **Evaluator** in **23<sup>rd</sup> National Children Science Congress-2015** Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at Bharathidasan University, Trichy on 10.11.2015.
13. Acted as a **Judge in Business Quiz in the State level Intercollegiate Meet- EXOBIZ-2K16** at Department of Business Administration, Jamal Mohamed College, Trichy on 21.02.2016.
14. Acted as **Evaluator** in **24<sup>th</sup> National Children Science Congress-2016** Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at Bharathidasan University, Trichy.
15. Conducted the **Bank Coaching Class – “Quantitative Ability”** Organized by the Guidance and Counseling Centre, Jamal Mohamed College, Trichy-20 on 31.08.2016.
16. **Delivered a Lecture** on Applications of Science in the National Science Day Celebrations, Tamil Nadu Science Forum Students Branch, Trichy District on 28.02.2017.
17. Acted as a **Judge in Team Management in the State level Intercollegiate Meet- EXOBIZ-2K17** at Department of Business Administration, Jamal Mohamed College, Trichy on 04.03.2017.
18. **Delivered a Lecture** in the National Science Day Celebrations, Tamil Nadu Science Forum Students Branch, Trichy District- Govt. High School, Periya Alampatti, Trichy on 28.02.2018.
19. Acted as **Evaluator** in **District Level 26<sup>th</sup> National Children Science Congress-2018**, Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at Bharathidasan University, Trichy on 28.10.2018.
20. **Delivered Inaugural Address** in the **CSIR Sponsored National Workshop** on “Innovations in Number Theory for Cryptography Applications” at Kongunadu College of Engineering Technology, Thottiyam on 24.08.2019
21. Acted as **Evaluator** in **The Future Scientist - Science Festival**, Organized by VIT, The Hindu Tamil News Paper and Tamilnadu Science Forum at The American College, Madurai on 20.10.2019.
22. Acted as **Evaluator** in **District Level 27<sup>th</sup> National Children Science Congress-2019**, Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at SBIOA School, Trichy on 03.11.2019.

23. **Delivered a Special Lecture** on Applications of Mathematics in the **One Day Seminar on Applications of Mathematical Modeling** organized Department of Mathematics, Periyar University Constituent College of Arts and Science, Dharmapuri on 03.03.2020.
24. Acted as **Evaluator** in **District Level 29<sup>th</sup> National Children Science Congress-2021**, Catalyzed and Supported by Department of Science and Technology, Govt. of India, Organized by Tamilnadu Science Forum at Trichy on 16-12-2021
25. **Delivered a Lecture** on Graph Theory Application in the State Level Seminar on “Recent Trends in Mathematics and Information Technology” under DBT- Star College Scheme, Vivekananda College, Madurai on 18-03-2022.
26. **Delivered a Lecture** on Graph & Network Optimization at Department of Mathematics, Selvam Arts and Science College, Namakkal on 21.09.2022.
27. **Member, Research Team, A Book on Theory and Applications of Symbolic Computing with Artificial Intelligence Perspective (Prepared by Chief Scientist and Team Leader Dr. E.G.Rajan), London Journal Press, 2023.**
28. **Delivered a Lecture** on Network Optimization at Department of Mathematics, Cauvery College for Women, Trichy on 09.08.2023.

#### **Seminar/ Conference/ Workshop Organized:**

- Organizing Secretary, An Inter Departmental One Day Seminar on Mission 2020 as a mark of respect to our former President Dr.A.P.J.Abdul Kalam. The Government of Tamil Nadu has identified 15th October as “ Youth Awakening Day” to honour our Bharat Ratna’s birth anniversary at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 15.10.2015.
- **Coordinator, UGC Sponsored Six Days Workshop on Research Methodology and SPSS, 20<sup>th</sup> to 25<sup>th</sup> October 2016** organized by Department of Mathematics, Jamal Mohamed College, Trichy-20.
- Executive Committee Member, **International Conference** on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 11<sup>th</sup> December 2017.
- Executive Committee Member, **International Conference** on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 20<sup>th</sup> & 21<sup>st</sup> February 2019.
- **Organizing Secretary, A One day Workshop on Algebra** for UG and PG students of Mathematics, 10.08.2019, PG & RESEARCH DEPARTMENT OF MATHEMATICS & Dr. A.P.J. ABDUL KALAM CLUB(Affiliated to Vigyan Prasara Network of Science Clubs)Club ID: VP-TN0056, Jamal Mohamed College, Trichy-20.
- Executive Committee Member, **International Conference** on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 19<sup>th</sup> February 2020.

- Coordinator, JAMATICS 2020 (A State Level Intercollegiate Competition) at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 25<sup>th</sup> February 2020.
- **Organizing Secretary, COVID-19 Awareness Competitions for School and College Students (National Level- DBT Star College Scheme)**, 14-04-2020 – 30-04-2020, PG & RESEARCH DEPARTMENT OF MATHEMATICS & Dr. A.P.J. ABDUL KALAM CLUB (Affiliated to Vigyan Prasar Network of Science Clubs) Club ID: VP-TN0056, Jamal Mohamed College, Trichy-20
- **Organizing Secretary, Faculty Development Programme on Data Science USING R PROGRAMMING and GEO GEBRA (Under DBT Star College Scheme) in association with Spoken Tutorial, IIT Bombay**, 11-05-2020-14-05-2020, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20
- **Organizing Secretary, National Level Webinar on "Indian Science : COVID 19 Scenario" (Under DBT Star College Scheme)**, 29.05.2020, PG & RESEARCH DEPARTMENT OF MATHEMATICS & Dr. A.P.J. ABDUL KALAM CLUB (Affiliated to Vigyan Prasar Network of Science Clubs) Club ID: VP-TN0056, Jamal Mohamed College, Trichy-20.
- **Organizing Secretary, International Level Online Faculty Development Programme on Pure and Applied Mathematics (Under DBT Star College Scheme)**, 11-06-2020-17-06-2020, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.
- **Organizing Secretary, National Level Online Faculty Improvement Programme on Advances in Linear Algebra and Differential Equations (Under DBT Star College Scheme)**, 09.07.2020 and 10.07.2020, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.
- **Coordinator, Virtual Internship Programme on SPSS**, Conducted by South Indian Researchers Association, Sankarankovil from 06-11-2020 to 12-11-2020.
- Coordinator, TNSCST Sponsored Science Quiz for Higher Secondary School Students on 25.02.2021
- **Organizing Secretary, State Level Online Aptitude test in view of National Mathematics Day (Under DBT Star College Scheme)**, 22-01-2021, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.
- **Organizer, Online Programming Quiz " SMART HACKS-2021-22"** in association with Electronics & ICT Academy, IIT Kanpur on 20-12-2021.
- **Coordinator, Science Academies' Virtual Lecture Workshop on "Differential Equations and its Application"** on 21-12-2021 and 22-12-2021, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.

- **Organizing Committee Member**, One Week Faculty Development Programme on ICT Tools for E-content Development from 24-01-2022 to 29-01-2022 under DBT Star College Scheme, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.
- **Organizing Member**, one-week Interdisciplinary Online Faculty Development Programme on Data Analytics and Mathematical Software Tools by Teaching Learning Centre Ramanujan College (University of Delhi) under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching in Collaboration with PG & Research Department of Mathematics (Under DBT Star College Scheme), Jamal Mohamed College, Trichy from 25-02-2022 to 03-03-2022.
- **Organizing Secretary**, JAMATICS 2K22 (A State Level Intercollegiate Competition) at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 11.05.2022.
- **Assistant Coordinator**, Young Students Scientist Programme, Catalyzed and Supported by the Tamil Nadu State Council for Science and Technology, Chennai from 16.05.2022 to 31.05.2022 at Jamal Mohamed College, Tiruchirappalli.
- **Coordinator**, Online Training Programme for Higher Secondary School Teachers' from 12.09.2022 to 30.09.2022 under DBT Star College Scheme, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.
- Executive Committee Member, **International Conference** on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 21<sup>st</sup> & 22<sup>nd</sup> December 2023.
- **Coordinator**, Science Academies' Lecture Workshop on "Differential Equations and their Applications in Mathematical Modeling" on 06.01.2023 and 07.01.2023, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.
- **Organizing Secretary**, Virtual Workshop on Python Programming for Biologists (in association with Nano Science and Technology Consortium, Noida, U.P) from 11.02.2023 to 14.02.2023, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.
- **Organizing Secretary**, National Level Students Conclave on "Innovation and Novel Ideas" under DBT Star College Scheme, PG & RESEARCH DEPARTMENT OF MATHEMATICS & CHEMISTRY, Jamal Mohamed College, Trichy-20 on 27.02.2023.
- **Organizing Secretary**, JAMATICS 2K23 (A State Level Intercollegiate Competition) at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 01.03.2023.
- **Organizing Secretary**, One day Workshop on Virtual Labs **under the Virtual Lab Project (NME- ICT, MoE India)** at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 26.09.2023.
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- **Organizing Secretary**, JAMATICS 2K24 (A State Level Intercollegiate Competition) at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 20.02.2024.

- **Assistant Coordinator**, Science Academies' Lecture Workshop on "Mathematical Biology" on 18.03.2024 and 19.03.2024, PG & RESEARCH DEPARTMENT OF MATHEMATICS, Jamal Mohamed College, Trichy-20.

**Grants Received:**

| S.No. | Name of the Seminar / Conference / Workshop   | International / National / State Level / College level | Date(s) DD-MM-YYYY        | Name of the Organizing Secretary/ Coordinator | Name of the Funding Agency       | Total Grant Received (Rs.) |
|-------|---|--|---------------------------|---|----------------------------------|----------------------------|
| 1.    | TNSCST Sponsored Science Quiz for Higher Secondary School Students  | District   | 25.02.2021                | A.Prasanna                                    | TNSCST & DBT Star College Scheme | 5000/-                     |
| 2.    | Virtual Lecture Workshop on "Differential Equations and its Application"  | National   | 21-12-2021 and 22-12-2021 | A.Prasanna                                    | Science Academies', Bengaluru    | 21,500/-                   |
| 3.    | Young Students Scientist Programme, Catalyzed and Supported by the Tamil Nadu State Council for Science and Technology, Chennai | District   | 16.05.2022 to 31.05.2022  | A.Prasanna (as Assistant Coordinator)         | TNSCST                           | 3.00 Lakhs                 |
| 4.    | Lecture Workshop on "Differential Equations and their Applications in Mathematical Modeling"                                    | National   | 06.01.2023 and 07.01.2023 | A.Prasanna                                    | Science Academies', Bengaluru    | 1,13,500/-                 |
| 5     | Lecture Workshop on "Mathematical Biology"  | National   | 18.03.2024 and 19.03.2024 | A.Prasanna (as Assistant Coordinator)         | Science Academies', Bengaluru    | 2,20,000/-                 |

### Project Received:

| S.No. | Name of the Project  | Name of the Funding Agency                                   | Total Grant Received(Rs.) | Duration                 |
|-------|--|--|---------------------------|--------------------------|
| 1     | Challenges in Mathematics Learning: A Study from the perspective of School Student's | Seed Money Project Scheme—Jamal Mohamed College, Trichy      | 6000/-                    | One Year from 22.04.2022 |
| 2     | Prognosis of Lung Cancer using Stochastic Mathematical Model with ML Algorithm       | Tamil Nadu State Council for Science and Technology, Chennai | 7500/-                    | 2022-23                  |

### SPECIAL AWARDS RECEIVED:

- Received Service **Gold Medal** (Outstanding NSS Volunteer) By **Jamal Mohamed College** during 2003.
- Awarded **Outstanding NSS Volunteer Award** (Tamil Nadu State NSS Award) by **Government of Tamil Nadu** during 2007.
- Awarded **Ramanujam Award – 2011 (Best Paper Award)** for Presented a Paper on “Analysis of Diabetics Using Modeling” at Sri Khandhan College Of Arts & Science, Erode during 2010-2011.
- Won **Consolation Prize in National Science Day Celebrations** Exhibition Conducted By PG & Research Department of Zoology, Jamal Mohamed College, Trichy-20 on 27.02.2013.
- Won **Consolation Prize in National Science Day Celebrations** Exhibition Conducted by PG & Research Department of Zoology, Jamal Mohamed College, Trichy-20 on 27.02.2014.
- Guided a project, which is selected as one of the **Best Project in State Level-Youth Science Festival 2015** held at Chennai on 14<sup>th</sup> and 15<sup>th</sup> March 2015.
- Awarded Dr.A.P.J Abdul Kalam Club(VP-TN0056) as Bonze Club Category for the year 2018, Vigyan Prasar, Noida, UP on 25.09.2019
- Received Certificate of Excellence in Reviewing at Journal of Advances in Mathematics and Computer Science in 2020.
- Received **Certificate of Appreciation from E&ICT Academy, IIT Kanpur** on 24-12-2021 for conducted Online Programming Quiz ” SMART HACKS-2021-22” at Jamal Mohamed College, Trichy-20.

- Received **Certificate of Appreciation from NPTEL Coordinator, IIT Madras** in recognition of **role as Mentor** for the NPTEL Online Certification Course Introduction to Probability and Statistics, Jan-Apr 2022.
- **Received Best Junior Researcher Award (with Cash Prize Rs. 5000/-) in Science Faculty for the Academic Year 2021-2022 from Jamal Mohamed College, Tiruchirpalli.**
- **Received Certificate of Appreciation for acting as an Event Coordinator in the World Space Week-2023 Celebrations organized by Satish Dhawan Space Centre, SHAR, ISRO, Sriharikota in association with Jamal Mohamed College, Trichy-20 from 6<sup>th</sup> to 8<sup>th</sup> October 2023.**
- **Received Certificate of Appreciation for acting as an Academic Committee Member in the 31<sup>st</sup> National Children's Science Congress 2023, District Conference held on 30.10.2023 at Jamal Mohamed College, Trichy-20.**
- **Received Dr. Sarvepalli Radhakrishnan Life Time Achievement National Award in the field of Teaching, Research and Publication, IRDP Group of Journals, Vanagaram on 15.02.2024.**

#### **MEMBERSHIP IN ACADEMIC BODIES:**

- Member, Board of Studies (Mathematics), Jamal Mohamed College, Trichy -20 (From 2009 to till date)
- Member, Tamil Nadu Science Forum (From 2014 to till date)
- Member of College Collaboration Scheme (C<sup>3</sup>-Program) (visit: <http://www.ijaiem.org>)
- Advisor/ Editorial Board Member, International Journal of Application or Innovation in Engineering Management (<http://www.ijaiem.org/editorial.php>)
- Life Member, Indian Society of Systems for Science & Engineering (ISSE) (No. LM04473)
- Member, All India Council for Technical Skill Development (From 16.04.2022)

## Members in National / International Committees, Editorial Boards (Journals and Conferences)

| Editorial Board Member / Reviewer  | Title of the Conference, Place and Date(DD-MM-YYY)  | Organizing Agency and Place                           |
|------------------------------------|---|---|
| Reviewer                           | CSIR Sponsored National Conference on Recent Trends in Pure and Applied Mathematics, Thanjavur, 04-02-2019 & 05-02-2019 | Bon Secours College for Women, Thanjavur              |
| Reviewer                           | International Journal of Pharmaceutical Research (Scopus Indexed) J.No. 63703 – Elsevier<br>24.12.2019                  | International Journal of Pharmaceutical Research      |
| National Advisory Committee Member | National Conference on Mathematics: Pure, Applied and Computation<br>04.03.2020   | Kongunadu College of Engineering & Technology, Trichy |
| Reviewer                           | Journal of Intelligent & Fuzzy Systems  | Journal of Intelligent & Fuzzy Systems                |

## OTHER ACADEMIC ASSIGNMENT

- Question Paper Setter in University of Madras, Chennai
- Question Paper Setter in Autonomous Colleges in Tamil Nadu
- Examiner in Central Valuation in Autonomous Colleges in Tamil Nadu
- Acted as External Examiner for M.Phil Viva Voce held at Rajah Serfoji Govt. College, Thanjavur on 20.10.2021
- Served as Subject for Board of Studies, G.T.N. Arts College, Dindigul on 28.04.2022
- Doctoral Committee Member- Mr. T.Rajesh Kumar, Rajah Serfoji Govt. College, Thanjavur (from 06.09.2021)
- Doctoral Committee Member- Mr.M. Karthikeyan, Rajah Serfoji Govt. College, Thanjavur (from 06.09.2021)
- Doctoral Committee Member- Ms. A.Nazeera Begam, Rajah Serfoji Govt. College, Thanjavur (from 06.09.2021)
- Doctoral Committee Member –Mr. Jasmine Kingsly, Thanthai Periyar Government Arts and Science College, Trichy (from 09.06.2022)
- Doctoral Committee Member –Ms. Reigana Begum, Jamal Mohamed College, Trichy (from 19.07.2022)
- Doctoral Committee Member –Ms. Z.Sirajunisha, Jamal Mohamed College, Trichy (from 16.08.2022)
- **Adjudication - Ph.D thesis, Bharathiar University, Coimbatore, 2023-24**
- Served as Subject Expert for Board of Studies, G.T.N. Arts College, Dindigul on 21.06.2023.
- **External Examiner, Ph.D Public Viva Voce, PG & Research Department of Mathematics, Nirmala College for Women, Coimbatore on 07.08.2023.**



- Doctoral Committee Member –Ms. Shahin, Jamal Mohamed College, Trichy (from 05.10.2023)

#### **ADMINISTRATIVE POSITIONS HELD IN THE COLLEGE:**

- Sub-Warden - Khajamian Hostel (February 2008 – November 2014)
- Tutor in-charge for BCA (2008-09)
- Tutor in-charge for First Batch of I M.Sc., Mathematics (SF) (2010-11)
- Tutor in-charge for B.Sc., Mathematics (From 2011-12 to 2013-2014)
- Deputy Warden - Khajamian Hostel (From 24.11.2014 to 31.05.2018)
- Member, Alumni Association Committee (From 2016-17 to 2022-23)
- Tutor in-charge for M.Phil. Mathematics (From 2014-15 to 2022-23)
- Vice President, Mathematics Association, Jamal Mohamed College, Trichy (From 2020-21 to 2023-24).
- **Staff Incharge -Major M.Aravandi Endowment Lecture (2020-21 to 2023-24)**
- Member, Admission Committee (From 2012-13 to till date)
- Advisor, Dr. A.P.J Abdul Kalam Club -VIGYAN PRASAR (An autonomous organisation under the Department of Science & Technology, Govt. of India), VIPNET- Dr. A.P.J. Abdul Kalam Club (VP-TN0056) (From 19.12.2016 to till date)
- Department **Assistant Coordinator, DBT Star College Scheme** March 2020 to February 2023)
- Staff In-charge, Ramanujan Centre for Mathematic Excellence (From 2017 to till date)
- Member, **Academic Council**, Jamal Mohamed College, Trichy (From 27.03.2021 to till date)
- Coordinator, B.Voc. Diploma in Insurance and Actuarial Science Programme (Under B.Voc. UGC NSQF Scheme in association with Insurance Institute of India, Mumbai)-From 2020-21 to till date
- **Coordinator, Nodal Centre for Virtual Labs under the Virtual Lab Project (NME- ICT, MoE India) for the year 2023 & 2024.**
- Class Teacher & Mentor for B.Sc Mathematics ( From 2023-24)

**OTHER ADMINISTRATIVE POSITIONS HELD IN THE COLLEGE:**

- Acted as Chief Invigilator, Chartered Accountants Examinations conducted by ICAI, New Delhi.
- Acted as Chief Invigilator, TNPSC Competitive Examinations conducted by TNPSC, Chennai.
- Acted as Chief Invigilator/ Chief Superintendent in Various Competitive Examinations held at Jamal Mohamed College, Tiruchirappalli.

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