STAFF PROFILE

1) **Name**   : Dr. A. MOHAMED ALI

2) **Designation**   : Assistant Professor

3) **Department**   : Mathematics

4) **Qualifications:**

    Academic   : M.Sc., M.Phil., Ph.D.,

5) **Experience (in years):**   Teaching   : 7 years 10 months

6) **Area of Specialization**   : Fuzzy Mathematics

7) **Contact**   **:** +91 9944236717

   E-mail   **:** mohamedalisncollege@gmail.com

8) **Publications**:

1. **Complement of max-product of intuitionistic fuzzy graphs**, Complex and Intelligent Systems (Springer), 7, 2895-2905 (2021)   https://doi.org/10.1007/s40747-021-00438-2.

2. **Box-dot product on interval-valued pythagorean fuzzy graphs**, Advances and Applications in Mathematical Sciences, Volume 20, Issue 5, March 2021, Pages 807-814.

3. **Weakly commuting mapping in linear normed spaces**, Journal of Mathematics and Computations (Scopus), 11, (2021), No. 1, 614-624. Https://doi.org/10.28919/jmcs/5150

4. **Energy of spherical fuzzy graphs**, Advances in Mathematics: Scientific Journal 9 (2020), no.1, 321–332. Https://doi.org/10.37418/amsj.9.1.26

5. **Intuitionistic fuzzy graph metric space**, International Journal of Pure and Applied Mathematics, Vol.118, No.6, 2018, pp.67-74.

6. **Degree of a vertex in max-product of intuitionistic fuzzy graph**, International Journal of Recent Technology and Engineering, Volume-8 Issue-4, November 2019. Https://10.35940/ijrte.C6411.118419.

7. **Degree of a vertex in complement of modular product of intuitionistic fuzzy graphs**, Journal of Physical Sciences, Vol. 24, 2019, 115-124.

8. **Edge regular interval-valued Pythagorean fuzzy graph**, American International Journal of Research in Science, Technology, Engineering & Mathematics, Vol.1, Issue 25, Dec 2018 - Feb 2019, pp.50-54.

9. **Some products on interval-valued Pythagorean fuzzy graphs**, Malaya Journal of Matematik, Vol.7, No.3, 566-571, 2019.

10. **On strong interval-valued Pythagorean fuzzy graphs**, Journal of Applied Science and Computations, Vol.5, Issue 10, 2018, pp.699-713.

11. **Interval-valued Pythagorean fuzzy graph**, Journal of Computer and Mathematical Sciences, Vol.9 (10), 2018, pp.1497-1511.

12. **Fixed point theorems in intuitionistic fuzzy graph metric space**, Annals of Pure and Applied Mathematics, Vol. 17, No. 1, 2018, pp.57-65.

13. **Intuitionistic fuzzy cone metric spaces and fixed point theorems**, International Journal of Mathematics and its Application, Vol. 5, Issue-1-A (2017), 25-36.

14. **N-intuitionistic fuzzy metric spaces and various types of mappings**, Annals of Fuzzy Mathematics and Informatics, Vol.13, No.2, (February-2017), pp. 277-287.

15. **An algorithm for finding complementary nil dominating set in a fuzzy graph**, New Trend in Mathematical Sciences, Issue 5, No. 3, 1-6 (2017).

16. **Modular product on intuitionistic fuzzy graphs**, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Issue 9, September 2017, 19258-19263.

17. **Some fixed point theorems in intuitionistic fuzzy 2-metric space using implicit relation**, The Journal of Fuzzy Mathematics, USA, Vol.25, No.4, 2017.

18. **Intuitionistic fuzzy sequence in metric spaces**, International Journal of Mathematics and its Application, Vol. 4, Issue-1-B(2016), 155-159.

19. **Complementary nil domination in intuitionistic fuzzy graph using effective edge**, Annals of Fuzzy Mathematics and Informatics, Volume 10, No. 5, (November 2015), pp. 765-774.

20. **Application of intuitionistic fuzzy sets in decision making problem using revised max-min composition technique**, International Journal of Innovative Trends in Engineering,Vol.7, No.1, 2015, pp.30-33.

21. **Extended intuitionistic fuzzy metric and fixed point theorems**, International Journal of Pure and Engineering Mathematics (IJPEM), Vol.3, No.II, (Aug-2015), pp.111-123.

22. **On strong interval-valued intuitionistic fuzzy graph**, International Journal of Fuzzy Mathematics and System, Volume 4, Number 2(2014), pp.161-168.

23. **On complete interval-valued intuitionistic fuzzy graph**, Advances in Fuzzy Sets and Systems, Volume 18, Number 1(2014), pp.71-86.

24. **Medical diagnostic reasoning using extended hausdorff distance for intuitionistic fuzzy sets**, International Journal of Engineering Research and Application, Volume 4 , Issue 10(Part-6), 2014 , pp.15-18.

25. **Max-product on intuitionistic fuzzy graph**, Proceeding of 1st International Conference on Collaborative Research in Mathematical Sciences (ICCRM'S 17) September 2017. Page No. 181-185.

26. **Isomorphism on interval-valued intuitionistic fuzzy graph**, Jamal Academic Research Journal (An Interdisciplinary) Issue 1& 2 (2015), pp.93-104.

27. **A note on edge regular interval-valued fuzzy graph**, Jamal Academic Research Journal: An Interdisciplinary Special Issue (February 2016), pp: 97-102.

28. **Some results on fuzzy matrices**, Indian Journal of Mathematics Research, Vol.7, No.1, 2019, pp.1-14.

29. **Some results on edge connectivity in intuitionistic fuzzy graphs**, Indian Journal of Mathematics Research Vol.7, No.1, 2019, pp.15-29.

9. Conference / Workshops/ Symposia / FDP/ Refresher Course Attended and Presented:

1. Presented a paper entitled "**Laplacian Energy of Spherical Fuzzy Graphs**", International virtual conference on mathematical modelling Analysis and modelling, organized by the Department of Mathematics, Thiruvalluvar University, Vellore on 8th and 9th July 2021.

2. Presented a paper entitled "**Some results on sd-open set in topological spaces**" in the International Conference on Recent Advancements in Mathematics (ICRAM 2021) organized by the PG and Research Department of Mathematics, Sacred Heart College (Autonomous), Tirupattur on 9th and 10th April 2021.

3. Presented a paper entitled "**Secure domination in zero-divisor graphs**" in the Second International Conference on Algebra and Discrete Mathematics – ICADM 2020 organized by Department of Mathematics- DDE, Madurai Kamaraj University, Madurai – 625021 during June 24-26, 2020.

4. Presented a paper entitled "**Max- Product on Intuitionistic Fuzzy Graphs**" in the **I** International Conference on Collaborative Research in Mathematical Sciences – ICCRMS'17, organized by Department of Mathematics, KG College of Arts and Science, Coimbatore – 641 035, on 23.09.2017.

5. Presented a paper entitled "**Some properties of vertex degree and edge degree of interval-valued fuzzy graphs**" in International Conference on Discrete and Computational Mathematics- ICDCM 2017 conducted by Department of Mathematics, The Gandhigram Rural Institute- Deemed University, Dindigul, held during Feb 16-18, 2017.

6. Presented a paper entitled "**A Note on Edge Regular Interval-valued Fuzzy Graph**, At National Conference on Graph theory, Fuzzy Graph theory and their Applications, Organized by PG & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli, 10th and 11th February 2016.

7. Presented a paper entitled "**Medical diagnostic reasoning using extended Hausdroff distance for intuitionistic fuzzy sets**", At International Conference on Mathematical Methods and Computation, Organized by PG & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli, 13th and 14th February 2014.

8. Presented a paper entitled "**Adjoint operator method of non-linear Magneto-hydrodynamics flow over power law stretching plate with suction/ blowing**", At One Day Seminar on Pure and Applied Mathematics, Department of Mathematics & Ramanujan Centre for Higher Mathematics, Alagappa University, Karaikudi, Tamil Nadu, 20, December, 2012.

9. Attended the Faculty Development Programme on Recent Trends in Mathematics" organized by the Department of Mathematics, Vivekananda college, Tiruvedakam west, Madurai -625234 held on 16th March 2021.

10. Participated in One week Online Faculty Development Program on "LaTex" Organized by Department of Mathematics and Physics Auxilium College of Arts and Science for Women, Regunathapuram from 07.06.2021 to 12.06.2021.

11. Participated in the National E- Workshop on 'Role of Non-teaching in NAAC Accreditation' organized by Internal Quality Assurance Cell (I.A.Q.C.) of Mungasaji Maharaj Mahavidyalaya, Darwha on 5th April 2021.

12. Participated in one week National level online FDP on "Number Theory and Its Applications" organized by Department of Science and Humanities Gates Institute of Technology, Andra Pradesh held from 14th -19th June 2021.

13. Participated in the International Conference on   New Trends in Differential Equations and Applied Mathematics organized by Sri Vidya Mandir Arts and Science College (Autonomous), Krishnagiri in collaboration with CHRIST (Deemed to be University), Bengaluru and Jyothi Engineering College, Thrissur during April 12-13, 2021.

14. Participated in the National Webinar on "An Introduction to Queuing Systems" organized by PG & Research Department of Mathematics Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous) held on 17th April 2021.

15. Participated in the National Webinar on "Fuzzy Mathematics - Applications & E - Resources" organized by PG & Research Department of Mathematics Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous) held on 03rd April 2021.

16. Participated in the six days National level Webinar on "Recent Trends in Mathematics " Organized by PG Department of Mathematics and IQAC on 23.06.2021 to 28.06.2021.

17. Participated in National Webinar on "Recent Applications of Fractional Calculus to Science And Technology" Organized by Applied Science and Humanities Department, Sardar Vallabhbhai Patel Institute of Technology, Vasad held on 15th July, 2021.

18. Participated in the One Day Faculty Development Programme on "Data Analysis Using SPSS" organized by Department of MBA, IIMS, Bengaluru on 08.02.2023.

19. Participated in the Faculty Development Programme on "Free/Libre and Open Source Software for Education in NAAC/NBA Accreditation and NIRF Ranking", organized by Spoken Tutorial, IIT Bombay's Nodal Resource Centre Hindusthan College of Arts and Science, Coimbatore on 23.03.2023.

20. Participated 5-days FDP "Exploring the Scope of Engineering Mathematics in Control System and Signal Processing" organized by School of Electronics Engineering (SENSE) from 12th to 16th June 2023 at Vellore Institute of Technology, Chennai.

21. Participated One week Virtual Faculty Development Program on "SageMath" conducted by Department of Mathematics, KG College of Arts and Science, Coimbatore from 26.06.2023 to 30.06.2023.

Other Co-curricular / Administrative Responsibilities:

1. Member for Club of Scientific Designing and Modelling

Editorial/ Review Board Member:

1. Bulletin of Calcutta Mathematical Society
2. International Journal of Fuzzy Systems (Springer)
3. Soft Computing (Springer)
4. Ratio Mathematica
5. Advances and Applications in Mathematical Sciences
6. Annals of Fuzzy Mathematics and Informatics
7. International Journal of Fuzzy Systems
8. International Journal of Fuzzy System Applications
9. Fuzzy Information and Engineering
10. IEEE Truncations on Fuzzy Systems
11. Malaya Journal of Mathematik
12. International Journal of Fuzzy Logic and Intelligent Systems
13. Journal of New Theory
14. Asian Research Journal of Mathematics
15. International Journal of Neutrosophic Science

Membership in Professional Bodies:

1. All India Council for Technical Skill Development