RESUME

1. Name : Dr. M. MOHAMMED JABARULLA

2. Date of Birth : 10- 06- 1973

3. Address :

Residential	**Office**
10, Madurai Road	Assistant Professor of Mathematics
Manapparai- 621306	PG and Research Department of Mathematics
Tiruchirappalli (dt)	Jamal Mohamed College (Autonomous)
Tamilnadu	Tiruchirappalli – 620 020
India	Tamilnadu
Mobile: 99943-58684	India
Email ID: m.md.jabarulla@gmail.com	Tel: 0431-2331235

4. Designation : Assistant Professor of Mathematics

5. Date of Joining :
   Self Finance : 01-10-1996
   Aided : 20-08-2007

7. Date of Retirement : 30-06-2033

8. Educational Qualifications:

		Examination Passed	**Year**
(i) Under Graduate	:	B.Sc (Mathematics)	1993
		B.Ed (Mathematics)	1998
(ii) Master Degree	:	M.Sc (Mathematics)	1996
		MCA	2006
		M.Sc (IT)	2002
		M.Ed	2000
(iii) Research Degree	:	M.Phil (Mathematics)	2002
		M.Phil (Computer Science)	2007
		M.Phil (Education)	2008
		P.hD (Mathematics)	2016
(iv) Diploma/Certificate	:	Cert. in Arabic	1992
		Dip. in Arabic	1993
		PGDCA	1996

9. Experience as on **31-03-2023:**
    Undergraduate   : 26 Years 06 Months 07 Days
    Postgraduate   : 26 Years 06 Months 07 Days
    M.Phil   : 20 Years 06 Months 07 Days
    Projects Guided   : M.Phil(Mathematics), M.Sc(Mathematics), Ph.D(Mathematics)
                            B.Sc(CS), B.Sc(IT), BCA, M.Sc(CS), M.Sc(IT), MCA, PGDCA

10. Areas of Specialization   : Fuzzy Mathematics

11. Languages known   : Tamil, English and Arabic

12. Computer Knowledge   : MATLAB, SPSS, LaTeX, Python, R-Software, SCILAP, R-Programming,
                                 C, C++, C#, Java, Visual Basic, Visual C++, Oracle, SQL
                                 .NET, J2EE, ASP, HTML, DHTML, XML
                                 MS Office, Corel Draw, Page Maker, Photo Shop, Macro Media Flash
                                 MS DOS, MS Windows, UNIX, Linux, Ubundu,
                                 BASIC, FORTRAN, COBOL, Pascal, dBase3 Plus, FoxPro, Lotus123, WordStar

13. **Subjects Taught**   :
     Undergraduate   : 1. Allied Mathematics
                                  2. Programming in C, C++, Java

                                  3. Operations Research

                                  4. Numerical Methods

                                  5. Calculus

                                  6. Discrete Mathematics

                                  7. Business Mathematics and Statistics

                                  8. Mathematical Statistics

                                  9. Mathematics for Competitive Examinations

                                 10. System Analysis and Design

                                 11. Database Systems

                                 12. Office Automation

                                 13. Web Designing

     Postgraduate   : 1. Programming in C, C++, JAVA, Python

                                  2. Integral Equations and Calculus of Variations

                                  3. System Modeling and Simulation

                                  4. Probability and Statistics

                                  5. Mathematical Foundations of Computer Science

                                  6. Computer Oriented Numerical and Statistical Methods

                                  7. Resource Management Technique

M.Phil   : 1. Real Analysis

                         2. Pedagogical Skills

Classes Handled   : M.Phil(Mathematics), M.Sc(Mathematics), B.Sc(Mathematics),

                    MCA, M.Sc(IT), M.Sc(CS), PGDCA, PGDCH, BCA, B.Sc(CS), B.Sc(IT),

                    B.Com, ICWA, M.A(Economics).

14. Research Supervision   :

Qualification Approval   :   Ref. No. 5832/D5/2006

M. Phil Guideship Approval   :   Ref. No. 029185/RA/M.Phil/Mathematics/2007

M.Phil. Degree   :   Completed – 34   Pursuing – 01   Total – 35

Ph.D Guideship Approval   :   Ref. No. 000511/Ph.D./K12/Mathematics/R.A./26.05.2020

Ph.D Degree   :   Pursuing – 04

15. Acted as Resource Person:

1. "Computer Awareness Program for TNEB Trichy District Engineers" held at Department of Computer Science, Jamal Mohamed college, (Autonomous), Tiruchirappalli, From 01.12.1996 to 10.12.1996

2. "Computer Awareness Program for Trichy, Thanjore, Pudukkottai and Karur District High Court Chief Judges" held at Department of Computer Science, Jamal Mohamed college, (Autonomous), Tiruchirappalli, from 01.11.2005 to 15.11.2005

3. "Master Trainer of House Listing and Population Enumeration CENSUS-2011", Department of Census Operation, Ministry of Home Affairs, Government of India, held at Rathinavel Dever Hall, Trichy, 22nd ,23rd April and 24th May 2010.

4. "Master Trainer of Preparation of National Population Register (NPR) CENSUS-2011" Department of Census Operation, Ministry of Home Affairs, Government of India, held at Rathinavel Dever Hall, Trichy, 28th, 29th January and 5th February 2011.

16.   Publications:

International Level:

1. "An intuitionistic fuzzy multi objective shortest path", Advances in Fuzzy Sets and Systems, Vol. 7, No. 1, 2010, pp 17-26. http://www.pphmj.com/abstract/5583.html

2. "On searching intuitionistic fuzzy shortest path in a network", Applied Mathematical Sciences, Vol. 4, 2010, pp 69-72.

   http://m-hikari.com/ams/ams-2010/ams-69-72-2010/ganiAMS69-72-2010.pdf

3. "An intuitionistic fuzzy shortest path problem using similarity measure", CiiT International Journal of Fuzzy Systems, Vol. 3, No. 3, 2011, pp 103-109.

http://www.ciitresearch.org/fsapril2011.html

4. "Multiple labeling approach for finding shortest path with intuitionistic fuzzy arc lengths", International Journal of Scientific and Engineering Research(IJSER), Volume 3, Issue 11, November 2012, pp 101-106. http://www.ijser.org/Conferences/SpecialIssue_Nov2012.pdf#Page=101

5. "Anti Intuitionistic Fuzzy Graph", Advances and Applications in Mathematical Sciences, Volume 20, Issue 4, February 2021, pp 597-604.

   https://www.mililink.com/upload/article/1233295825aams_vol_204_feb_2021_a13_p597-604

6. "Computation of Shortest Path in A Network Using Trapezoidal Fuzzy Neutrosophic Number", Adalya Journal, Volume 8, Issue 12, December 2019.

7. "A New Algorithm for Searching a Shortest Path on Shuffled Intuitionistic Fuzzy ARC Lengths", IFRSA's International journal of Computing, Volume 6, Issue 1, January 2016. Pp 1-7.

8. "Searching a Shortest hyper path on Intuitionistic Fuzzy Hyper Network", IFRSA's International journal of Computing, Volume 6, Issue 1, January 2016. Pp 8-12.

9. "Shortest path problem using Pythagorean fuzzy triangular number",3rd International Conference on Mathematical Techniques and Applications (e – ICMTA 2022), SRM University, Chennai, Tamilnadu, India, 23rd, 24th and 25th March, 2022.

10. "Interval – valued Pythagorean fuzzy Soft graphs",3rd International Conference on Mathematical Techniques and Applications (e – ICMTA 2022), SRM University, Chennai, Tamilnadu, India, 23rd, 24th and 25th March, 2022.

11. "Algorithm approaches for shortest path problem in an interval – valued triangular Pythagorean fuzzy network", Advance of Mathematics in Science and Engineering, Ratio mathematica, volume 46, March 2023. http://dx.doi.org/10.23755/rm.v46i0.1064

12. "Strong Interval – Valued Pythagorean fuzzy soft graphs", Advance of Mathematics in Science and Engineering, Ratio mathematica, volume 46, March 2023. http://dx.doi.org/10.23755/rm.v46i0.1067

National Level:

1. "An intuitionistic fuzzy shortest path problem using trapezoidal intuitionistic fuzzy number", Proceedings of National Conference on Recent Developments in Mathematics and its applications (NCRDMA-2011), SRM University, Chennai, Tamilnadu, India, 31st January and 1st February, 2011, pp 88-93.

2. "Pythagorean Fuzzy Shortest Hyper Path in a Network" National Conference on Recent Developments in Fractional Calculus and its Applications (RDFCA – 2022), SASTRA University, Thanjavur, Tamilnadu, India, 18th and 19th November, 2022.

17. **Paper Presented in International Conference**

   1. "An algorithmic approach for intuitionistic fuzzy shortest path problem", International Conference on Emerging Trends in Mathematics and Computer Applications(ICETMCA-2010), Mepco Schlenk Engineering College, Sivakasi, Tamilnadu, India, December 16-18, 2010.

   2. "Multiple labeling approach for finding shortest path with intuitionistic fuzzy arc lengths", UGC Autonomous Funded International Conference on Mathematics and its Applications, Islamiah College, Vaniyambadi, 29th August 2012.

   3. "Degree, Order and size in Pythagorean Fuzzy Graphs", International Conference on Mathematical Methods and Computations (ICOMAC 2022), Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 21st and 22nd December 2022.

   4. "Shortest path problem under Pythagorean Fuzzy Network using Dijkstr's Algorithm", International Conference on Mathematical Methods and Computations (ICOMAC 2022), Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 21st and 22nd December 2022.

   5. "Applications of Interval-valued Pythagorean fuzzy soft Graph in Bipolar Fuzzy Frame works", International Conference on Mathematical Methods and Computations (ICOMAC 2022), Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 21st and 22nd December 2022.

18. **Attended in International Conference**

   1. International Conference on Mathematical Methods and Computations, Organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 11th December 2017.

   2. Chair Person & Coordinator of International Conference on Mathematical Methods and Computations, Organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 20th and 21st February 2019.

   3. Chair Person of International Conference on Mathematical Methods and Computations, Organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 19th February 2020.

   4. Coordinator in the International Conference on Mathematical Methods and Computations, Organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 21st and 22nd December 2022.

19. **Paper Presented in National Conferences**

   1. "An intuitionistic multi objective shortest path – forward dynamic programming approach", One Day National Seminar on Graph Theory, Algorithms and Modeling (GAM-2010), PG and Research Department of Mathematics Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu,

India, 19th March 2010.

2. "An intuitionistic fuzzy shortest path problem using trapezoidal intuitionistic fuzzy number", National Conference on Recent Developments in Mathematics and its applications (NCRDMA-2011), SRM University, Chennai, Tamilnadu, India, 31st January and 1st February, 2011.

20. **Orientation/Refresher courses attended**

1. UGC Sponsored orientation course from 01-11-2008 to 28-11-2008 at UGC Academic Staff College, Bharathidasan University, Trichy.

2. UGC Sponsored Refresher course in Mathematics from 10-11-2010 to 30-11-2010at UGC Academic Staff College, Bharathidasan University, Trichy.

3. UGC Sponsored Refresher course from 15-09-2016 to 05-10-2016 at UGC Academic Staff College, Bharathidasan University, Trichy.

4. UGC Sponsored Online Multi-Disciplinary, Refresher Course in Disaster Management from 17-09-2020 to 30-09-2020 at UGC HRDC, Maulana Azad National Urdu University, Hyderabad.

5. UGC Sponsored Online Short term course on MOOCs, e-content Development and Open Educational Sources from 05-11-2020 to 07-11-2020.

21. **Workshop / Conference Attended**

1. Three day workshop on "Curriculum Development and Evaluation" organized by UGC – Academic Staff College, Bharathidasan University held at Jamal Mohamed College (Autonomous), Trichy-20, from 2nd, 3rd and 4th March 2006.

2. "National Seminar on Emerging Trends in Mathematical Techniques and their Applications in Computer Science", Organized by Department of Computer Science and Mathematics, Shirimathi Indira Gandhi College, 23rd and 24th February 2007.

3. "State Level Workshop on Research Prospects in Data Mining", Department of Computer Science, Jamal Mohamed College(Autonomous), Trichy-20, 22.03.2007.

4. UGC Sponsored "Training on MATLAB", Department of Mathematics, Bishop Heber College and Cranes Software International Limited, Bangalore, 22nd February 2008.

5. National Conference on "Fuzzy Mathematics and Graph Theory", Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu, India, 27th and 28th March, 2008.

6. "Workshop on Software Tools in Mathematical Modeling", Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-20, from 28.02.2009 to 04.03.2009.

7. UGC Sponsored International Conference on Mathematical Methods and Computation, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu, India, 24th and 25th July, 2009.

8. "House Listing and Population Enumeration CENSUS-2011", Department of Census Operation, Ministry of Home Affairs, Government of India, held at Government Higher Secondary School, Somarasampettai, from 6th ,8th & 12th April 2010.

9. "Preparation of National Population Register(NPR) CENSUS-2011" Department of Census Operation, Ministry of Home Affairs, Government of India, held at Rathinavel Dever Hall, Trichy, from 13th ,14th & 15th December 2010.

10. Participated in the "Workshop on Mathematical Modeling (R - Software)" Organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 19th to 25th January 2011.

11. UGC Sponsored One day National Seminar on "Application of Mathematics" , held at PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy-620020, on 22nd February 2012.

12. UGC Sponsored One Day National Seminar on "Discrete Mathematics and its Applications" organized by PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy-20 on 9th March 2013.

13. UGC Sponsored All India Workshop on "Research Methodology and Technology Management in Higher Education" organized by Academic Staff College, Pondicherry University (A Central University), Pondicherry on 14th and 15th March 2013.

14. "International Conference On Mathematical Methods and Applications" (ICOMAC 2014) (under UGC Autonomous Grant), organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-20 on 13th & 14th February 2014.

15. "A Four Day Workshop on LaTeX and SPSS" organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-20 on 26th,29th,30th, September 2014 and 1st October 2014.

16. "Short Term Course on SPSS Hands on Training (Social Sciences)" organized by Academic Staff College, Bharathiar University, Coimbatore-46 from 07-10-2014 to 12-10-2014 (6 Days)

17. UGC Sponsored National Conference on "Graph Theory, Fuzzy Graph Theory and their Applications" organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-20 on 10th and 11th February 2016.

18. UGC Sponsored six days Workshop on Research Methodology" organized by PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy-20 on 20th October to 25th October 2016.

19. One – day Workshop on "The Role of a Teacher in the Present Scenario", organized by

Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Trichy-20 on 10th December 2016.

20. Three – day "NLP – Based Faculty Empowerment Programme", organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Trichy-20 on 17th, 19th and 20th June 2017.

21. International Workshop on Python Programming, organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Trichy-20 on 18th February 2020.

22. UGC Sponsored Online Short term course on "Cyber Crime" Conducted by UGC – Human Resource Development Centre, Bharathiar University, 19th and 21st August 2020.

23. UGC Sponsored Online Short term course on "Cyber Crime" Conducted by UGC – Human Resource Development Centre, Bharathiar University, 19th and 21st August 2020.

24. UGC Sponsored Online Short term course on "Human Rights Education" Conducted by Bharathidasan University, 26th and 28st August 2020.

25. One-day Workshop on Astronomy organized by PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy-20 on 31st August 2021.

26. Two days Virtual Lecture Workshop on "Differential Equations and its Application" organized by PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy-20 on 21st and 22nd December 2021.

27. Workshop on Fundamentals of Probability Theory and Detection Estimation Theory, organized by PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy-20 on 06-10-2022 to 08-10-2022.

28. International Workshop on Big Data Analytics using Distributed Computing organized by the PG and Research Department of Mathematics, International Conference on Mathematical Methods and Computations (ICOMAC 2022), Jamal Mohamed College (Autonomous), Tiruchirappalli -20, from 23rd December 2022.

22. **Membership in Autonomous Programme**

1. Member- Board of studies, PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy – 20, June 2004 – Till to date.

2. JAMATICS Secretary and Vice President of Mathematics Association for the year 2008 - 2009, 2009 - 2010, PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy – 20.

3. JAMATICS Coordinator of Mathematics Association for the year 2021 and 2022, PG and Research Department of Mathematics, Jamal Mohamed College(Autonomous), Trichy – 20.

23. **Minor Research Project**

   * Amount Rs.3.5Lakhs sanctioned by UGC Minor Research Project on 17th March 2014 entitled as"Shortest Path Network on Intuitionistic Fuzzy Network".

24. **Research Consultant**

Web References:-

http://www.jmc.edu/include/department/maths/staff/profile/MMJ%20Resume.pdf

http://scholar.google.co.in/citations?view_op=search_authors&mauthors=m.mohammed+jabarulla&hl=en&oi=ao

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