

**Resume (as on 01.02.2022)**

1. Name : M.S. AFYA FARHANA  
2. Sex : Female  
3. Date of Birth : 17.04.1987  
4. Designation : Assistant Professor of Mathematics (SF)  
5. Date of Entry in the Service :

Assistant Professor of Mathematics (SF) from 16-06-2010 at Jamal Mohamed College  
(Autonomous), Tiruchirappalli -620020, Tamilnadu.

6. Address :

<b>Residence</b>	<b>Office</b>
3/3, 77-D Venkateshwara Nagar, East Ambikapuram, Trichy-620 004.	Jamal Mohamed College (Autonomous), Race Course Road, TVS Tollgate, Trichy – 620 020.

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**7. Educational Qualifications:**

S.No.	Examination Passed	University / College	Year of Passing
1.	B.Sc., (Mathematics)	Jamal Mohamed College, Trichy.	2007
2.	M.Sc., (Mathematics)	Jamal Mohamed College, Trichy.	2009
3.	M.Phil., (Mathematics)	Jamal Mohamed College, Trichy.	2010

8. Languages known : Tamil, English.

**9. Teaching Experience :**

Under Graduate: 11 Years

Post Graduate : 11 Years

- 10. Area of Specialization:** Graph Theory, Fuzzy Graph Theory

## 11. Subjects Taught:

Undergraduate: Laplace Transform and Fourier series, Programming in C, Differential Equations, Numerical Methods, Graph Theory, Matlab.

Postgraduate: Measure Theory and Integration, Classical Dynamics, Ordinary Differential Equations, Complex Analysis.

## 12. Seminars / Conferences / Workshops Attended

1. Seminar on “Creating competitiveness to excel in higher education- a TQM approach”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 8<sup>th</sup> December 2010.
2. Workshop on “Mathematical Modeling” Jamal Mohamed College (Autonomous), Tiruchirappalli 19th to 25th January 2011.
3. UGC sponsored one day National seminar on “Applications of Mathematics”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 22nd February 2012.
4. UGC sponsored National seminar on “Examination Reforms”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 24th February 2012.
5. UGC sponsored one day seminar on “Teaching, Learning and Research in Higher Education – Excellence and Beyond Excellence” Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 7th March 2012.
6. UGC sponsored one day National seminar on “Discrete Mathematics and its Applications”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 09th March 2013.
7. Four days Workshop on “LATEX and SPSS”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 from 20.09.2014 to 25.09.2014.
8. Two days International Conference on “Mathematical methods and Computation”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 22<sup>nd</sup> and 23<sup>rd</sup> January 2015.
9. UGC Sponsored National Conference on “Graph Theory, Fuzzy Graph Theory and their Applications”, Jamal Mohamed College(Autonomous), Tiruchirappalli-20, 10<sup>th</sup> and 11<sup>th</sup> February 2016.
10. One day workshop on “The role of a Teacher in the present scenario”, Jamal Mohamed college (Autonomous), Tiruchirappalli-20, 3<sup>rd</sup> December, 2016.

11. Three days “NLP – Based faculty Empowerment Programme”, Jamal Mohamed college (Autonomous), Tiruchirappalli-20, 17<sup>th</sup>,18<sup>th</sup> and 20<sup>th</sup> June 2017.
12. One day International Conference on “Mathematical methods and computations” Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 11<sup>th</sup> December, 2017.
13. UGC CPE sponsored Two – Day workshop on “Professional Development for Academic Leadership in curriculum Design”, Jamal Mohamed college (Autonomous), Tiruchirappalli-20, 18<sup>th</sup> and 19<sup>th</sup> January, 2019.
14. UGC sponsored Two days International Conference on “Mathematical methods and Computation”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 20<sup>th</sup> and 21<sup>st</sup> February 2019.
15. One day workshop on “Algebra and its Applications”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 28<sup>th</sup> September, 2019.
20. A special Lecture on “Intellectual Property Rights and Prior Art search for Research Development”, Jamal Mohamed College (Autonomous), Tiruchirappalli – 20, 5<sup>th</sup> Febraury, 2020.
21. One day International Workshop on “Python Programming”, Jamal Mohamed college (Autonomous), Tiruchirappalli-20, 18<sup>th</sup> Febraury, 2020.
22. UGC Sponsored International Conference on “Mathematical Methods and Computations”, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, 19<sup>th</sup> Febraury, 2020.
23. One day Virtual International Workshop on “Effective usage of ICT tools for Higher Education”, Servite Arts and Science College for Women, Karur Dt, Tamil Nadu, 3<sup>rd</sup> June, 2020.
24. Two days Virtual National Workshop on “Free ICT tools for E-content Development and Online Teaching”, Gojan School of Business and Technology, Chennai, 6<sup>th</sup> and 7<sup>th</sup> June, 2020.
25. Two Days National Webinar on “Explore Mathematics to New Dimension in Pandemic Covid -19”, Mohanlal Sukadhiya University, Udaipur (RAJ), India, 12<sup>th</sup> and 13<sup>th</sup> June 2020.
26. International Webinar on “Successful Preparation of Research Proposal”, 26<sup>th</sup> June 2020.
27. National Webinar on “Coloring of Graphs”, Tirumala Engineering College, A.P, 27<sup>th</sup> June 2020.
28. National Webinar on “Graph Coloring Problems”, V.O. Chidambaram College, Thoothukudi, 8<sup>th</sup> July,2020.
29. Online webinar on “National Education Policy-2020”, Jamal Mohamed College (Autonomous), Trichy-20, 08.08.2020.
30. Two Days Virtual International Conference on “Recent Trends in Applied and Mathematical Computations (ICRTACM-2020)”, Bengaluru, India, 4<sup>th</sup> and 5<sup>th</sup> December 2020.

31. Three Days Virtual Conference on “6<sup>th</sup> Biennial International Group Theory Conference – 2021”, Vellore Institute of Technology, Vellore, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> March 2021.
32. Two Days Virtual International Conference on “Dynamical System and Soft Computing (ICDSSC-2021)”, Gobi Arts and Science College, Gobi-638453, 5<sup>th</sup> and 6<sup>th</sup> March 2021.
33. One day Virtual Conference on “Heber International Conference on Applied Mathematics”, Bishop Heber College, Trichy-17, 26<sup>th</sup> April, 2021.
34. Two Days International Virtual Conference on “Mathematical Modelling, Analysis and Computing (MMAC – 2021)”, Thiruvalluvar University, Vellore, 8<sup>th</sup> and 9<sup>th</sup> July 2021.

### **13. Faculty Development Programme Attended**

1. International online FDP on “Recent Trends in Mathematics” SNS College of Technology (Autonomous), Coimbatore, 02.06.2020 – 05.06.2020.
2. Online FDP in “Pure and Applied Mathematics”, Jamal Mohamed College (Autonomous), Trichy –20, 11.06.2020 – 17.06.2020.
3. National Level IQAC Sponsored online FDP, KMG College of Arts and Science College, Vellore, 8<sup>th</sup> And 9<sup>th</sup> July, 2020.
4. Online FDP on “E-Content Development”, Jamal Mohamed College (Autonomous), Trichy-20, 30.06.2020 - 04.07.2020.
5. Five Days Online International FDP on “New Epoch on Software Learning”, Holy Cross College (Autonomous), Trichy, 16.08.2021- 20.08.2021.

### **14. Orientation/Refresher Course**

1. A 4-week induction/ Orientation Programme for “Faculty in Universities/ Colleges/ Institutes of Higher Education” from 20 December, 2021- 19 January, 2022, Organized by Teaching learning centre, Ramanujan College, University of Delhi.

### **15. List of Papers Presented in National and International Conferences**

1. Presented a paper entitled “Fuzzy Chromatic Number of Fuzzy Soft Graphs” in the International Conference ICOMAC-2020 held at Jamal Mohamed College (Autonomous), Trichy – 20, 19 February 2020.
2. Presented a Paper entitled “Fuzzy Chromatic Number of Fuzzy Soft Cycle and Complete Fuzzy Soft

Graphs” in the International Virtual Conference ICRTACM-2020, Reva University, Bengaluru, India, 4<sup>th</sup> and 5<sup>th</sup> December 2020.

3. Presented a Paper entitled “On Fuzzy Chromatic Number of Line, Middle and Total Graphs of Complete Fuzzy Soft Graphs” in 6<sup>th</sup> Biennial International Group Theory Conference – 2021(Virtual), Vellore Institute of Technology, Vellore, 04<sup>th</sup> to 06<sup>th</sup> March 2021.
4. Presented a Paper entitled “Fuzzy Dominator Chromatic Number of Fuzzy Soft Graphs” in the International Virtual Conference on Dynamical System and Soft Computing ICDSSC-2021, Gobi Arts and Science College, Gobi, 5<sup>th</sup> and 6<sup>th</sup> March 2021.
5. Presented a Paper entitled “On Fuzzy Dominator Chromatic Number of Middle, Subdivision and Total Fuzzy Soft Graphs” in Heber International Conference on Applied Mathematics (Virtual), Bishop Heber college (Autonomous), Trichy, 26<sup>th</sup> April 2021.
6. Presented a Paper entitled “Bounds on Fuzzy Dominator Chromatic Number of Fuzzy Soft Bipartite Graphs” in International Virtual Conference on Mathematical Modelling, Analysis and Computations MMAC-2021, Thiruvalluvar University, Vellore, 8<sup>th</sup> and 9<sup>th</sup> July 2021.

#### **16. List of Publications in National and International Journals**

1. Jahir Hussain,R. and Afya Farhana, M.S., Fuzzy Chromatic Number of Fuzzy Soft Graphs, “Advances and Applications in Mathematical Sciences” (ISSN: 0974-6803), Vol. 19, Issue 11, p. 1125-1131 September 2020. [Web of Science]
2. Jahir Hussain,R. and Afya Farhana, M.S., On Fuzzy Dominator Chromatic Number of Middle, Subdivision and Total Fuzzy Soft Graphs, “International Journal of Aquatic Science” (ISSN: 2008-8019), Vol.12, Issue 02, p. 104-111, 2021. [Web of Science]

#### **17. Details of Online Certification Course Completed**

8 weeks Online NPTEL – AICTE Faculty Development Programme on “Enhancing Soft Skills and Personality” on the SWAYAM platform during Jan – Apr 2020.

#### **18. Details of Other Position**

1. Placement Officer, Department of Mathematics (SF-Women), JMC, 2015-2020.
2. Web Admin, Department of Mathematics (SF-Women), JMC, 2018 onwards.