

**JAMAL MOHAMED COLLEGE (AUTONOMOUS)**

**Tiruchirappalli – 20.**

**Resume (as on 8.04.2023 )**

1. Name : A. Fathima Begam  
2. Sex. : Female  
3. Designation : Assistant Professor of Mathematics (SF)  
4. Address :

Residence

Office

108/20, Shamimullasha Makkan,  
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**5. Educational qualifications:**

Examination Passed:	Year
B.Sc.	2001
MCA	2004
M.Sc.	2014
M.Phil.	2015

**6. Experience:**

Under graduate : 7 years  
Post graduate : 5 years

7. Languages known : Tamil, English

8. Areas of Specialization : Advanced Graph Theory

9. **Subjects Taught** :

Under Graduate : Graph Theory, Algebra, Real Analysis, Linear Algebra, Operations Research, Calculus, Discrete Mathematics, C Programming, Numerical Methods

Post Graduate : Algebra, Real Analysis

**10.Seminars / Conferences / Workshops Attended:**

1. UGC Sponsored one-day National seminar on “Discrete Mathematics and Its Applications” organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy, on 9<sup>th</sup> March 2013.
2. A four-day Workshop on “LATEX and SPSS” organized by PG and Research Department of Mathematics, Jamal Mohamed College, Trichy, from 22<sup>nd</sup> September 2014 to 25<sup>th</sup> September 2014.
3. International Conference on “Mathematical Methods and Computation” organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 13<sup>th</sup> and 14<sup>th</sup> February 2014.
4. International Conference on “Mathematical Methods and Computation” organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 22<sup>nd</sup> and 23<sup>rd</sup> January 2015.
5. One-day Workshop in “Improving Teaching Practices – A Strategic Approach” organized by the Internal Quality Assurance Cell, Jamal Mohamed College, Trichy, on 23<sup>rd</sup> June 2018.
6. UGC CPE Sponsored two-day workshop on “Professional Development for Academic Leadership in Curriculum Design” organized by Curriculum Development Cell, Jamal Mohamed College, Trichy on 18<sup>th</sup> and 19<sup>th</sup> January 2019.
7. International Conference on “Mathematical Methods and Computation” organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 20<sup>th</sup> and 21<sup>st</sup> February 2019.
8. One-day Workshop on “Algebra and Its Applications” organized by PG and Research Department of Mathematics, Jamal Mohamed College, Trichy on 28<sup>th</sup> September 2019.
9. International Workshop on “Python Programming” organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 18<sup>th</sup> February 2020.
10. International Conference on “Mathematical Methods and Computation” organized by

the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 19<sup>th</sup> February 2020.

11. One-day workshop on Astronomy organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 31<sup>st</sup> August 2021.
12. A 4-Week Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education”, organized by the Teaching Learning Centre, Ramanujan College, University of Delhi from 20<sup>th</sup> December 2021 to 19<sup>th</sup> January 2022.
13. One Week Faculty Development Programme on “ICT Tools for E-content Development” jointly organized by PG and Research Department of Mathematics, & Internal Quality Assurance Cell, Trichy from 24<sup>th</sup> January 2022 to 29<sup>th</sup> January 2022.
14. One-day Faculty Development Programme on Exordium to MOOCS & SWAYAM organized by PG & Research Department of Mathematics, Jamal Mohamed College, Trichy on 16<sup>th</sup> December 2022.
15. International Conference on “Mathematical Methods and Computation” organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 21<sup>st</sup> and 22<sup>nd</sup> December 2022.
16. International Workshop on Big Data Analytics Using Distributed Computing Organized by the P.G. & Research Department of Mathematics, Jamal Mohamed College, Trichy on 23<sup>rd</sup> December 2022.

#### **11. List of Papers presented in National and International Conferences**

1. Presented a paper entitled “Inverse Eccentric Domination in Graphs” in the International Conference on Mathematical Methods and Computation, organized by the PG and Research Department of Mathematics, Jamal Mohamed College, Trichy, on 19<sup>th</sup> February 2020.

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

1. Dr. R. Jahir Hussain and A. Fathima Begam, Connected Eccentric Domination Number in Graphs, Proceedings of “International Journal of Innovative Trends in Engineering (IJITE), in Volume – 04, No.-01, April 2015, pages 42 - 47.
2. Dr. R. Jahir Hussain and A. Fathima Begam, Further Results on Connected Eccentric Domination Number in Graphs, Proceedings of “Advances and Applications in Discrete Mathematics” Volume 17, Number 3, September 2016 pages 243 -254.
3. Dr. R. Jahir Hussain and A. Fathima Begam, Inverse Eccentric Domination in Graphs, Proceedings of “Advances and Applications in Mathematical Sciences”, Volume 20, Issue 4, February 2021, Pages 641 – 648.

### 13. E-Content YouTube links

1. **Calendar in Quantitative Aptitude Part I – Basic Concepts:**  
[Calendar in Quantitative Aptitude - Part I || Basic Concepts || #odddaysincalendar #calendarproblems - YouTube](#)
2. **Calendar in Quantitative Aptitude Part II - Problems:**  
[Calendar in Quantitative Aptitude - Part II || Calendar Problems || #calendarproblems #aptitude - YouTube](#)
3. **Calendar in Quantitative Aptitude Part III - Problems:**  
[Calendar in Quantitative Aptitude - Part III || Calendar Problems || #CalendarProblems #Aptitude - YouTube](#)
4. **Application of Matrices to Geometry:**  
[Application of Matrices to Geometry - YouTube](#)