

## RESUME

1. **Name** : Dr. M. MOHAMED ALTHAF
2. **Date of Birth** : 07-11-1990
3. **Age** : 32 years
4. **Religion** : Muslim
5. **Community** : BC - Labbai
6. **Nationality** : Indian
7. **Marital Status** : Married
8. **Address** : 3/1129 Panneer selvam street,  
Burma Colony, Oilmill  
Kattur, Trichy-620019.
9. **E-Mail** : althaf2maths@gmail.com
10. **Mobile No.** : 8438123172



### 11. **Date of Joining in Jamal Mohamed College:**

Started Working as an **Assistant Professor** in the PG & Research Department of Mathematics (SF) from 01-10-2014 at **Jamal Mohamed College, Tiruchirappalli-620020, Tamil Nadu.**

### 12. **Educational Qualification:**

Course	Institution	Board/University	Percentage & Class	Year of Passing
Ph.D., Mathematics	Jamal Mohamed College, Tiruchirappalli-20.	Bharathidasan University	Commended	2020
M.Phil., Mathematics	Jamal Mohamed College, Tiruchirappalli-20.	Bharathidasan University	83.8% 1 <sup>st</sup> class with Distinction	2014
M.Sc. Mathematics	Jamal Mohamed College, Tiruchirappalli-20.	Bharathidasan University	75.5% 1 <sup>st</sup> class	2013
B.Sc. Mathematics	Jamal Mohamed College, Tiruchirappalli-20.	Bharathidasan University	67.8% 1 <sup>st</sup> class	2011
HSC	Khajamian Higher Secondary School, Tiruchirappalli-20.	State	62.7% 1 <sup>st</sup> class	2008
SSLC	Khajamian Higher Secondary School, Tiruchirappalli-20.	State	66.4% 1 <sup>st</sup> class	2006

### 13. **Teaching Experience (as on 15.12.2023):**

Under Graduate : 9 Years 2 Month  
Post Graduate : 9 Years 2 Month  
M.Phil. : 6 Years

14. **Languages known** : English & Tamil

15. **Area of Specialization** : Analysis, Operations Research and Fuzzy Analysis

### 16. **Subjects Taught:**

<b>Under Graduate</b>	<ol style="list-style-type: none"> <li>1. Numerical Methods</li> <li>2. Statistics</li> <li>3. Differential Equations and Vector Calculus</li> <li>4. Operations Research</li> <li>5. Probability and Statistics</li> <li>6. Algebra and Trigonometry</li> <li>7. Multi Variate Calculus</li> </ol>
<b>Post Graduate</b>	<ol style="list-style-type: none"> <li>1. Linear Algebra</li> <li>2. Mathematical Foundation</li> <li>3. Operation Research</li> <li>4. Fuzzy Sets and Their Applications</li> <li>5. Measure and Integration</li> </ol>
<b>M.Phil.</b>	<ol style="list-style-type: none"> <li>1. Network Optimization</li> </ol>

### 17. Research Experience:

Research Stage	Title of Work /Thesis	College/ University where the work
M.Phil.	A Study on Fuzzy Detour Boundary Vertices and Fuzzy Detour $g$ -Centre in Fuzzy Graphs	Jamal Mohamed College/ Bharathidasan University, Trichy
Ph.D.	Contributions to Fixed Point Theorem on Fuzzy Metric Spaces Using Some Special Types of Functions	Jamal Mohamed College/ Bharathidasan University, Trichy

### 18. Swayam Courses:

- Successfully Completed 8-weeks NPTEL Online Certification Course on “Operations Research” with a consolidated score of 70% and got Elite Certificate Organized by IIT Roorkee in the Swayam Portal.

### 19. Administrative Position held in the College:

- Member – IQAC Core Committee from June 2022
- Member – Academic Council form October 2023
- Member – Curriculum Development Cell, from June 2019.
- Member – NIRF, Jamal Mohamed College, from 2018.
- Internal Board of Studies Member of Mathematics Department.
- ERP In-charge of Mathematics Department.
- Website In-charge of Mathematics Department.
- CIA Test In-Charge of Mathematics Department.
- Tutor – UG of Mathematics Department.

### 20. Administrative Position held Outside College:

- Conducted Central Govt. Co-Operative Examination as a Chief Invigilator in our College on 28.11.2020 and 29.11.2020.
- UG Question Paper Setting Scrutiny Member in Bharathiar University, Coimbatore.
- UG Question Paper Setting Scrutiny Member in Periyar University, Salem.
- Selected as a Presiding Officer in the Local Body Election.

### 21. Seminars and Workshops Organized

- Organized a Faculty Development Programme on Data Science USING R PROGRAMMING and GEO GEBRA (Under DBT Star College Scheme) in association with Spoken Tutorial, IIT Bombay from 11-05-2020 to 14-05-2020.
- 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.
- 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, JAMATICS 2K23 (A State Level Intercollegiate Competition) at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli on 01.03.2023.
- Event Coordinator as part of world Space Week celebrations organized by Satish Dhawan Space Centre, SHAR, ISRO, Sriharikota in association with Jamal Mohamed College, from 06<sup>th</sup> October to 08<sup>th</sup> October 2023.

## 22. E-Content:

- Sequencing Problem - <https://www.youtube.com/watch?v=Ec-AS98Qxlc&t=116s>
- Assignment Method 1- <https://www.youtube.com/watch?v=SYnptyoLei0&t=65s>
- Assignment Method 2- <https://www.youtube.com/watch?v=pz43bK5ItH4&t=63s>
- Assignment Method 3- <https://www.youtube.com/watch?v=5coHY-dsctc&t=8s>
- Problem on Numbers 1- <https://www.youtube.com/watch?v=wfyCbAu0mk0&t=180s>
- Problem on Numbers 2- <https://www.youtube.com/watch?v=RkE6nYOQwCY>

## 23. Details of Orientation / Refresher Course Attended:

- Participated in four days 'Refresher Course for College Teachers in Kerala State (Measure Theory)' organized by Kerala School of Mathematics(KSoM), Kozhikode, Kerala from 19<sup>th</sup> to 22<sup>nd</sup> February 2015.
- Participated in four days 'Refresher Course for College Teachers in Kerala State (Topology)' organized by Kerala School of Mathematics(KSoM), Kozhikode, Kerala from 23<sup>rd</sup> to 26<sup>th</sup> August 2015.
- Underwent a 4-week Orientation Programme through Online for "Faculty in Universities/Colleges/Institutes of Higher Education" conducted by Teaching Learning centre, Ramanujan College, University of Delhi under the aegis of Ministry of Human Resource Development, Pandit Madan Mohan Malaviya, National Mission on Teachers and Teaching on June 04 - July 01 2020.

## 24. Research Paper Publications (International & National Journal):

INTERNATIONAL			Total
Scopus	UGC	ICI	
2	3	1	06

1. "Some Results on Fixed Point Theorems in Fuzzy Metric Spaces" International Journal of Mathematical Archive-9(1), 66-70, 2018.

2. **“Fixed Point Theorems in Strong Fuzzy Metric Spaces Using Control Function”**, International Journal of Pure and Applied Mathematics, Volume 118 No. 6, 389-397, 2018.
3. **“Fixed Point Theorems in Strong Fuzzy Metric Spaces Using Generalized Altering Distance Function”** Journal of Physical Sciences, Vol. 23, 67-75, 2018.
4. **“Altering Distance Function on Some Fixed Point Theorems in Fuzzy Metric Spaces”**, American International Journal of Research in Science, Technology, Engineering & Mathematics, ISSN: 2328-3491, 306-313, 2019.
5. **“Fixed Point Theorems for Integral Type Contraction in Fuzzy Metric Spaces Using Altering Distance Function”**, Bulletin of Pure and Applied Sciences, Vol. 38E (Math & Stat.), No.1, P.425-431, 2019.
6. **“Fixed Point Theorems in Orthogonal Fuzzy Metric Spaces Using Altering Distance Function”** Advances and Applications in Mathematical Sciences, Vol. 20, Issue 6, 1175-1185, 2021.
7. **“On Algebraic Characteristics of  $\mu$  –Anti- $Q$  –Fuzzy Subgroups”**Trends in Mathematics (Accepted and waiting for publication) (Springer-Scopus & web of science).

**25. Conference / Seminar Attended and Presenting Papers:**

- Presented a paper on **Some Results on Fixed Point Theorems in Fuzzy Metric Spaces**, in the International Conference on Intuitionistic Fuzzy Sets and Systems organized by PG and Research Department of Mathematics, Vellalar College for Women (Autonomous), Erode-12 from 8<sup>th</sup> January to 10<sup>th</sup> January 2018.
- Presented a paper on **Altering Distance Function on Some Fixed Point Theorems in Fuzzy Metric Spaces**, in the 2<sup>nd</sup> International Conference on Current Scenario in Pure and Applied Mathematics organized by PG and Research Department of Mathematics, Kongunadu Arts and Science College (Autonomous), Coimbatore-24 on 3<sup>rd</sup> January 2019.
- Presented a paper on **Fixed Point Theorems for Integral Type Contraction in Fuzzy Metric Spaces Using Altering Distance Function**, in the UGC Sponsored International Conference on Mathematical Methods and Computation organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-24 on 20<sup>th</sup> and 21<sup>st</sup> February 2019.
- Presented a paper on **Fixed Point Theorems in Orthogonal Fuzzy Metric Spaces Using Altering Distance Function**, in the UGC Sponsored International Conference on Mathematical Methods and Computation Organized by PG and Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-20 on 19<sup>th</sup> February 2019.
- Presented a paper on **Some Fixed Point Theorem on Bi-Polar Fuzzy Metric Spaces Using Altering Distance Function**, in the International Conference on Mathematical Methods and Computation Organized by PG and Research Department of

Mathematics, Jamal Mohamed College (Autonomous), Trichy-20 on 21<sup>st</sup> and 22<sup>nd</sup> December 2022.

## 26. Awards / Recognitions:

- Won **A.SHAMSUDEEN AWARD** for having secured **First Mark** in the Ordinary Differential Equation's paper of I PG in Jamal Mohamed College.
- Selected for the **Best Paper Award** during the 2<sup>nd</sup> International Conference on Current Scenario in Pure and Applied Mathematics held at Kongunadu Arts and Science College (Autonomous), Coimbatore on 3rd January 2019.
- Received **Merit Certificates** in Differential Equation, Advanced Graph Theory, Ordinary Differential Equation's and Classical Dynamics in Jamal Mohamed College.

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

Editorial Board Member / Reviewer	Title of the Journal/Conference	Indexed	Organizing Agency and Place
Reviewer	Journal of Intelligent & Fuzzy Systems	Scopus and Web of Science	IOS Press, The Netherlands
Reviewer	Asian Research Journal of Mathematics	International, ICI	ICI World of Journal, West Bengal
Reviewer	Journal of Advances in Mathematics and Computer Science	International, ICI	ICI World of Journal, West Bengal

## 28. Seminars / Conferences / Workshops Attended:

- Participated in the National Seminar on "**ALGEBRA AND GRAPH THEORY**" in Srinivasan College of Arts & Science at Perambalur.
- Participated in the One Day National Seminar on "**DISCRETE MATHEMATICS AND ITS APPLICATIONS**" at Jamal Mohamed College.
- Participated in a One Day workshop on "**Data Analysis using SPSS' 22**" organized by Bharathidasan University, Trichy-20 on 6<sup>th</sup> January 2014.
- Participated in the Two Day International Conference on '**Mathematical Methods and Computation**' held at **Jamal Mohamed College**, Trichy-20 on 13<sup>th</sup> and 14<sup>th</sup> February 2014.
- Participated in the Three Day UGC Sponsored National Conference on "**Fuzzy Logic and its Applications to Computer Science and Annual Conference of Kerala Mathematical Association**" Organized by Department of Mathematics, Baselios Poulouse II Catholicos College, Piravom, Kerala-64 on 20-22 February 2014.
- Attended in the Two Day UGC Sponsored National Level Seminar on '**New Trends in Analysis**' held at **Nehru Arts and Science College**, Kanhangad Kerala-671314 on 25<sup>th</sup> and 26<sup>th</sup> September 2014.

- Participated in the Two Day International Conference on '**Mathematical Methods and Computation**' held at **Jamal Mohamed College**, Trichy-20 on 22<sup>nd</sup> and 23<sup>rd</sup> January 2015.
- Participated in the State Level Seminar on '**Computing and Communication Technologies**' Organized by **Jamal Mohamed College**, Trichy-20 on 25<sup>th</sup> Feb 2015.
- Participated in the National Level Seminar on '**National Conference on Advanced Computing**' Organized by **Jamal Mohamed College**, Trichy-20 on 5<sup>th</sup> March 2015.
- Participated in the One Day National Conference on "**Computing and Communication Technologies**" Organized by PG Department of Information Technology, Jamal Mohamed College, Tiruchirappalli-20 on 17<sup>th</sup> September 2016.
- Participated in the Seminar on "**The Role of a Teacher in the Present Scenario**" Organized by the Internal Quality Assurance Cell of the Jamal Mohamed College, Tiruchirappalli-20 on 03.12.2016.
- Participated in the Two day Faculty Development Program on "**Presentation Skills Level 1**" Conducted by ICT Academy held at Jamal Mohamed College, Tiruchirappalli-20 on 23-24 February 2017.
- Participated in the One Day National Conference on "**Advanced Computing**" Organized by PG and Research Department of Computer Science, Jamal Mohamed College, Tiruchirappalli-20 on 15<sup>th</sup> March 2017.
- Participated in the One Day International Conference on '**Mathematical Methods and Computation**' held at Jamal Mohamed College, Trichy-20 on 11<sup>th</sup> December 2017.
- Participated in the "**Workshop on Pedagogical knowledge of Mathematics (Teaching Linear Algebra)**" held at Kerala School of Mathematics(KSoM), Kerala from 24<sup>th</sup> to 26<sup>th</sup> March 2018.
- Participated in the One-Day workshop on "**Improving Teaching Practices - A Strategic Approach**" Organized by the Internal Quality Assurance Cell of Jamal Mohamed College, Tiruchirappalli-20 on 23<sup>rd</sup> June 2018.
- Participated in the "**Orientation Programme on Preparing Course Outcomes in Curriculum Design**" Organized by Curriculum Development Cell, Jamal Mohamed College. Tiruchirappalli-20 on 03.01.2020
- Participated in the "**International Workshop on Python Programming**" Organized by PG & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli-20 on 18.02.2020.
- Participated in Four days Webinar on "**An Effective Research Paper Writing Skills**" Organized by Bhagwan Mahavir University, Surat, Gujarat on 13-16, April 2020.
- Participated in the Webinar on "**Virtual Reality**" Organized by Bhagwan Mahavir University, Surat, Gujarat on 20<sup>th</sup> April 2020.
- Participated in Live Webinar on "**Recent Advancement of Education and Technology**" Organized by International Journal of Advance Study and Research Work, Pune on 1<sup>st</sup> May 2020.

- Participated in the interactive Webinar on **“Quantifying the Quality of Research”** enfolded by Dr. Hiren Patel on 02-03, May 2020.
- Participated in the Webinar on **“Documentation Using Latex”** Organized by Arasu College of Arts and Science for Women on 4<sup>th</sup> May 2020.
- Participated in the National Level Webinar on **“Joy of Orderly Living”** Organized by Kaamadhenu Arts and Science College, Erode on 5<sup>th</sup> May 2020.
- Participated in the Online Panel Discussion on **“Impression of COVID-19: From Layman to Business Man ”**Organized by V.V.Vanniaperumal College for Women, Virudhunagar on 9<sup>th</sup> May 2020.
- Participated in National Level Online Workshop on **“Smart Research”** Phase-Iorganized by IQAC of Government First Grade College, Kanakapura on 07-09 May 2020.
- Successfully Completed the **“Mock Aptitude Test”** Organized by Cauvery College for Women, Trichy on 9<sup>th</sup> May 2020.
- Participated in the **“NAAC Awareness Programme for Faculty”** Organized by Marathwada Mitra Mandal Institute of Technology(MMIT), Pune on 08-14 May 2020.
- Participated in the **“Scilab”**training organized at D.K.M. College for Women in January 2020 semester, with course material provided by the spoken Tutorial Project, IIT Bombay.
- Participated in the **“LaTex”** training organized at D.K.M. College for Women in January 2020 semester, with course material provided by the spoken Tutorial Project, IIT Bombay.
- Participated in the **“Python 3.4.3”** training organized at D.K.M. College for Women in January 2020 semester, with course material provided by the spoken Tutorial Project, IIT Bombay.
- Participated in the **“R”** training organized at D.K.M. College for Women in January 2020 semester, with course material provided by the spoken Tutorial Project, IIT Bombay
- Participated in the Webinar on **“Personal Effectiveness-Need of the Hour”** Organized by Sakthi Institute of Information and Management Studies, Pollachi on 14<sup>th</sup> May 2020.
- Participated in the **“GeoGebra 5.04”** training organized at Jamal Mohamed College in January 2020 semester, with course material provided by the spoken Tutorial Project, IIT Bombay
- Participated in the **“R”** training organized at Jamal Mohamed College in January 2020 semester, with course material provided by the spoken Tutorial Project, IIT Bombay.
- Participated in the National Webinar on **“Research Publication: Skills, Ethics and Misconducts”** Organized by Kumaraguru College of Technology, Coimbatore on 15<sup>th</sup> May 2020.

- Participated in Five Days Online Workshop on **“Mathematical Sciences for CSIR – NET/SET/GATE”** Organized by Sree Narayana Guru College, Coimbatore on 11-15 May 2020.
- Participated in the National Webinar on **“Maintaining the Academic Interest of Students: During and After Lockdown”** Organized by Shri Jai Narayan Mishra PG College, Luknow on 16<sup>th</sup> May 2020.
- Participated in the Webinar on **“How to Prepare for Competitive Exams”** Organized by Trinity College for Women, Namakkal on 18<sup>th</sup> May 2020.
- Participated in Three Days National Level Online Course on **“Operations Research”** Organized by Virudhunagar Hindu Nadars’ Senthikumara Nadar College, Virudhunagar on 18-20 May 2020.
- Participated in the Webinar on **“Cybergogy for 21<sup>st</sup> Century Classrooms”** Organized by Inter-University Centre for Teachers Education [IUTCE], Gujarat on 18-19 May 2020.
- Participated in the Online Workshop on **“Personality Development-Unlearn to Learn The Skill”** Organized by National College, Trichy on 19<sup>th</sup> May 2020.
- Participated in the Webinar on **“Applications of Mathematics”** Organized by Nallamuthu Gounder Mahalingam College, Pollachi on 19<sup>th</sup> May 2020
- Participated in the National Webinar on **“Entrepreneurial Challenges and Opportunities”** Organized by Rathinam College of Arts and Science, Coimbatore on 20<sup>th</sup> May 2020.
- Participated in the National Webinar on **“Taking Research Forward During the Pandemic”** Organized by Loyola College, Chennai on 20<sup>th</sup> May 2020.
- Participated in Two Days Online Workshop on **“Basics of MATLAB and its Engineering Applications”** Organized by PES’s Modern College of Engineering, Pune on 21 and 22 May 2020.
- Participated in the Webinar on **“Guidelines for Writing a Research Paper”** Organized by Arasu Engineering College, kumbakonam on 22<sup>nd</sup> May 2020.
- Participated in the One Day National Level Webinar on **“Concept Development and Model Building for Social Science Research”** Organized by Kongu Arts and Science College, Coimbatore on 27<sup>th</sup> May 2020.
- Participated in the Webinar on **“Recent Research Directions in Distance in Graphs”** Organized by Ayya Nadar Janaki Ammal College, Sivakasi on 28<sup>th</sup> May 2020.
- Participated in the Online National Webinar on **“Indian Science: COVID 19 Scenario”** Organized by Jamal Mohamed College, Trichy on 29<sup>th</sup> May 2020.
- Participated in the **“Importance of Literature Survey in Research Work”** Organized by Soka Ikeda College of Arts and Science for Women, Chennai 30<sup>th</sup> May 2020.
- Participated in the Online Webinar on **“Katrāl Inithu Aasiriyargalum Aasiriyargalum”** Organized by Tamilnadu Science Forum (TNSF), Trichy 2<sup>nd</sup> June 2020.



- Participated in the Webinar on **“Wireless Communication Essentials”** Organized by Jeppiaar Institute of Technology, Sriperumbudur on 2<sup>nd</sup> June 2020.
- Participated in the Webinar on **“Applications of Differential Equations”** Organized by Kongunadu Arts and Science College, Coimbatore on 4<sup>th</sup> June 2020.
- Participated in the International Webinar on **“Maple Software for Beginners: A Mathematical Tool”** Organized by K.L.E. Society’s JagadguruTontadarya College, Betgeri, Karnataka on 5<sup>th</sup> June 2020.
- Participated in the International Digital Webinar on **“Traditional Classroom vs Digital Platform Classroom”** Organized by Thiruvalluvar College, Papanasam and ASDF International United Kingdom on 10<sup>th</sup> June 2020.
- Participated in the National Webinar on **“Mathematical Modelling of COVID 19”** Organized by Bishop Cotton Women Christian College, Bengaluru on 12<sup>th</sup> June 2020.
- Participated in the Webinar on **“Applications of Fuzzy Mathematics”** Organized by Sengamala Thayaar Educational Trust Women’s College, Mannargudi on 15<sup>th</sup> June 2020.
- Participated in the Webinar on **“The Solar Eclipse and its Significance”** Organized by Jamal Mohamed College with TNSF, Trichy on 20<sup>th</sup> June 2020.
- Participated in the International Webinar on **“Recent Trends on Domination in Graphs”** Organized by V. O. Chidambaram College, Thoothukudi on 25<sup>th</sup> June 2020.
- Participated in the International Webinar on **“Mathematical Approach of Solute Transport Modelling”** Organized by KIET Group of Institutions, Ghaziabad on 27<sup>th</sup> June 2020
- Participated in the Webinar on **“Calmness in the World of Chaos”** Organized by Sakthi Institute of Information and Management Studies, Pollachi association with Yogoda Sastanga Society of India on 28<sup>th</sup> June 2020.
- Participated in the One Day Webinar on **“Recent Trends in Mathematics”** Organized by Indian Institute of Information Technology, Kottayam on 29<sup>th</sup> June 2020.
- Participated in the Webinar on **“Optimization Models using Fuzzy Numbers”** Organized by Holycross College, Trichy on 30<sup>th</sup> June 2020.
- Participated in the Two Days National Webinar on **“Fluid Mechanics”** Organized by KGiSL Institute of Technology, Coimbatore 29-30 June 2020.
- Participated in the National Webinar on **“Algebra and Analysis”** Organized by R. V. Government College, Chengalpattu on 3<sup>rd</sup> July 2020.
- Participated in the **“Awariness Programme on NAAC Revised Accreditation Framework”** Organized by Kongu Arts and Science College, Erode on 3<sup>rd</sup> July 2020.
- Participated in the Webinar on **“Professional Development of Teachers through e-Resources”** Organized by Department of Education, University of Allahabad, Prayagraj on 4<sup>th</sup> July 2020.

- Participated in the Live Webinar on **“Inner Product Space”** Organized by Urumu Dhanalakshmi College, Trichy on 6<sup>th</sup> July 2020.
- Participated in the National Webinar on **“Graphs Colouring Problems”** Organized by V. O. Chidambaram College, Thoothukudi on 8<sup>th</sup> July 2020.
- Participated in the Live Webinar on **“Complex Analysis”** Organized by Urumu Dhanalakshmi College, Trichy on 10<sup>th</sup> July 2020.
- Participated in the Fourth JNU Workshop for Empowering Teaching through Online Mode (JNU-WETOM IV) on **“Going Online: Classroom, Field Work & Research”** Organized by Jawaharlal Nehru University, New Delhi on 11-12 July 2020
- Participated in the Webinar on **“Linear Regression Model in Machine Learning”** Organized by Sri Eashwari College of Engineering, Coimbatore on 14<sup>th</sup> July 2020.
- Participated in the National Webinar on **“An Overview of MATLAB”** Organized by Guru Nanak College, Chennai on 22<sup>nd</sup> July 2020.
- Participated in the National Webinar on **“Soft Topology and Its Applications”** Organized by Paavai Engineering College, Namakkal on 24<sup>th</sup> July 2020.
- Participated in the Webinar on **“Distance Edge Colouring of Graphs”** Organized by Kamaraj College, Thoothukudi on 29<sup>th</sup> July 2020.
- Participated in the Webinar on **“Homomorphism on Cyclic Groups”** Organized by Government College for Women, Kumbakonam on 31<sup>st</sup> July 2020.
- Participated in the National Level Webinar on **“Mutually Orthogonal Latin Squares and Conjecture of Euler and Machine Learning for Computer Vision”** Organized by DR.A.V.Baliga College of Arts and Science, Karnataka on 11<sup>th</sup> August 2020.
- Participated in the Webinar on **“National Educational Policy 2020”** Organized by IQAC of Jamal Mohamed College, Trichy on 8<sup>th</sup> August 2020.
- Participated in the One Day National Level Webinar on **“Matrix and its Applications to Differential Equations”** Organized by Aiman College of Arts and Science for Women, Trichy on 8<sup>th</sup> August 2020
- Participated in the Two Day International Webinar on **“Algebra, Analysis and Topology”** Organized by Bankura University on 13-14 August 2020.
- Participated in the One Day National Level Webinar on **“Minding Our Minds During the COVID-19”** Organized by Aiman College of Arts and Science for Women, Trichy on 16<sup>th</sup> August 2020.
- Participated in the Webinar on **“Best Practices in Acquiring Scholarly Knowledge”** Organized by Library and IQAC of Jamal Mohamed College, Trichy on 16<sup>th</sup> August 2020.
- Participated in the Workshop on **“Best Practices of ICT Tools in Teaching and Learning”** Organized by Paavai Engineering College, Namakkal on 29<sup>th</sup> August 2020.

- Participated in the International E-Workshop on **“The foundations of College Mathematics”** Organized by Sovarani Memorial College, Bankura on 21-23 September 2020.
- Participated in the Two Days National Webinar on **“Recent Advances in Mathematical Sciences”** Organized by Santal Bidroha Sardha Satabarshiki Mahacidyalaya, West Bengal on 27-28 September 2020.
- Participated in the Two Days National Webinar on **“Mathematics Perspective in Applied Sciences”** Organized by Yogi Vemana University, Kadapa on 29-30 September 2020.
- Participated in the National Webinar on **“Overview of Outcomes Based Education and its Framework for an Institution How Course Outcomes are Defined?”** Organized by Tamil Nadu Teachers Education University, Chennai on 2<sup>nd</sup> October 2020.
- Participated in the One Day National Webinar on **“Mathematical Analysis and Probability”** Organized by IQAC of J.K. College, Purulia on 4<sup>th</sup> October 2020.
- Participated in the National Webinar on **“Applications of Number Theory and Algebra in Computer Science”** Organized by Unity Women’s College in Collaboration with Kerala State Higher Education Council, Kerala on 6<sup>th</sup> October 2020.
- Participated in the Webinar on **“Applications of Nature Inspired Optimization Techniques for Solving Real Life Problems”** Organized by KPR Institute of Engineering and Technology, Coimbatore on 8<sup>th</sup> October 2020
- Participated in the Webinar Series 3 on **“Linear Algebra”** Organized by RSET and Centre for Topology and Applications, Kerala on 07-09 October 2020.
- Participated in the Webinar Series 4 on **“Stochastic Process and Mathematical Modeling”** Organized by RSET and Centre for Topology and Applications, Kerala on 14-16 October 2020.
- Participated in the National Webinar on **“Statistical Applications in Industry”** Organized by St. Peter’s College, Kolenchery, Kerala on 20<sup>th</sup> October 2020.
- Participated in the National Webinar on **“Rings and Ideals”** Organized by Korambayil Ahamed Haji Memorial Unity Women’s College, Malappuram, Kerala on 23<sup>rd</sup> October 2020.
- Participated in the National Webinar on **“Radial Graphs and its Applications”** Organized by VET Institute of Arts and Science, Erode on 23<sup>rd</sup> October 2020.
- Participated in the Webinar on **“Ergodic Correspondence and Combinatorics”** Organized by Abel Prize Laureate 2020 Prof. Hillel Frustenberg with Gujarat university on 5<sup>th</sup> November 2020.
- Participated in the One Day National Level Webinar on **“Applications of Intuitionistic Fuzzy Graphs”** Organized by Kongu Engineering College, Erode on 10<sup>th</sup> November 2020.

- Participated in the International Seminar on **“Present Trends in Applications of Mathematics”** Organized by Holy Cross College, Trichy on 16-17 November 2020.
- Participated in the One day International Webinar on **“Basics of Image Processing and its Mathematical Insights”** Organized by St. Joseph University, Nagaland on 30<sup>th</sup> November 2020.
- Participated in a Two days Online Workshop on **“Fundamentals of MATLAB”** Organized by Sri Shakthi Institute of Engineering and Technology, Coimbatore on 10-11 December 2020.
- Participated in the Two days International Webinar on **“Application of Mathematics in Science & Technology”** Organized by Salipur Autonomous College, Salipur, Cuttack on 15-16 December 2020.
- Participated in the One day National Webinar on **“Mindset for Success”** Organized by Arulmigu Palaniandavar College of Arts and Culture, Palani on 18<sup>th</sup> December 2020.
- Participated in the One day National Webinar on **“Applications of Graph Theory”** Organized by K . S. Rangasamy College of Arts & Science, Tiruchengode on 18<sup>th</sup> December 2020.
- Participated in the One day National Webinar on **“Life & Findings of Srinivasa Ramanujan”** Organized by Khalsa College, Patiala on 22<sup>nd</sup> December 2020.
- Participated in the One day National Webinar on **“Natural Dyes: An Alternate Source for Synthetic Dyes”** Organized by Arasu Engineering College, Kumbakonam on 29<sup>th</sup> December 2020.
- Participated in the Three days International Conference on **“Applied Mathematical Methods (ICAMM 2021)”** Organized by PSG College of Technology, Coimbatore on 07-09 January 2021.
- Participated in the International Virtual Conference on **“Recent Development in Computational Mathematics (ICCM 21)”** Organized by Rathinam College of Arts and Science, Coimbatore on 11<sup>th</sup> January 2021.
- Participated in the Webinar on **“Applications of Partial Differential Equations in Control and Inverse Problems”** Organized by Kumaraguru College of Technology, Coimbatore on 20<sup>th</sup> January 2021.
- Participated in the **“National Webinar on Construction of Finite Field of Polynomials and its Application in Cryptography (CFFPAC-2021)”** Organized by PG and Research Department of Mathematics, C.Abdul Hakeem College (autonomous) Melvisharam on 17<sup>th</sup> February 2021.
- Participated in the INSA & NCM joint online Teachers Enrichment Workshop on **“Algebra and Analysis”** hosted by Kongu Engineering College, Perundurai on 5<sup>th</sup> February - 28<sup>th</sup> February (Fri / Sat/ Sun) 2021.
- Participated in the Two Days Webinar on **“AWARENESS OF STATISTICAL SOFTWARES (R, PYTHON, SAS, SPSS) IN CONJUNCTION WITH THE ANNUAL ACADEMIC COMPETITIONS OF ISPS”** organized by Indian Society

for Probability and Statistics (ISPS) and Department of Mathematics & Department of Statistics, The Madura College, Madurai during 13-14, March 2021.

- 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 on 12.04.2023 and 13.04.2023.
- Participated in the "AICTE - ISTE Sponsored One Week Virtual Refresher Programme on “**Applied Mathematics**” Phase II organized by the Department of Mathematics, M.Kumarasamy College of Engineering, Karur from 19.04.2021 to 24.04.2021.
- Participated in the National Webinar on “**Modelling and Solving Graph Colouring Problems Using GRIN Software**” organized by the PG & Research Department of Mathematics, Theivanai Ammal College for Women (Autonomous), Villupuram on 26<sup>th</sup> May 2021.
- Participated in the Two Day Online Workshop on “**Latex**” Organized by Vellore Institute of Technology, Chennai on 27<sup>th</sup> 28<sup>th</sup> May 2021.
- participated in National Webinar on “**Understanding Advanced Learners: The Role of Teachers**” on 27<sup>th</sup> May 2021 (11.30 a.m. to 01.30 p.m.) organized by the Department of Mathematics & Statistics & Entrepreneurship Development Cell of N.S.S. College of Commerce & Economics, Mumbai.
- Participated in the National Level Webinar on “Mathematical Software Workshop” Organized by Department of Applied Sciences and Humanities in Association with Mathematics Club, Universal Engineering College, Thrissur, Kerala from 02<sup>nd</sup> June to 06<sup>th</sup> June 2021.
- Participated in Webinar on '**How to Handle Online Classes Effectively?**' organized by School of Social Sciences and Languages(SSL), VIT Chennai on 10<sup>th</sup> June 2021.
- Participated a webinar on “**MIND BLOWING FACES OF MATHEMATICS**” organized by Department of Mathematics with Computer Applications, Sri Malolan College of arts and Science, Chengalpet on 06.08.2021.
- Participated in the One Day Workshop on “**Astronomy**” organized by PG & Research Department of Mathematics (Under DBT Star College Scheme), Jamal Mohamed College (Autonomous), Tiruchirappalli. On 31.08.2021.
- Participated in the International Virtual Conference on “**Application of Mathematics**” Organized by PG & Research Department of Mathematics in association with the Internal Quality Assurance Cell (IQAC), Govt. Arts College, Tiruchirappalli on 04<sup>th</sup> September 2021.
- Participated in One Week Virtual International Lecture Workshop on "**New Advances in Mathematical and Computational Sciences**" (NAMCS-2021) Organized by Department of Applied Mathematics, Yogi Vemana University, Kadapa - 516005, A.P., INDIA during 13.09.2021 to 18.09.2021.
- Participated in the One Day online Workshop on “**Bloom's Taxonomy Based Question Paper Design for Outcome Based Education in Mathematics**” Organized by Department of Mathematics in association with the Internal Quality Assurance

Cell (IQAC) and Outcome Based Education Monitoring Council on 27.09.2021 under UGC PARAMARSH Scheme.

- Participated in the Science Academies Virtual Lecture Workshop on “**Differential Equations and its Application**”, PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli. 21-12-2021 and 22-12-2021
- Participated in the **online workshop on Assessment**, organized by Mathematics Training and Talent Search Trust (MTTS) held from 07.01.2022 to 08.01.2022.
- Attended the workshop on “**Technical Writing with LaTeX**”, sponsored by Govt. of Kerala organized by the Department of Mathematics, University of Kerala, from 14<sup>th</sup> February 2022 to 01<sup>st</sup> March 2022.
- Attended the workshop on “**Workshop on Python Programming**”, sponsored by Govt. of Kerala organized by the Department of Mathematics, University of Kerala, from 08<sup>th</sup> March 2022 to 22<sup>nd</sup> March 2022.
- Participated in the Workshop on “Effective Implementation of Outcome Based Education” Organized by Curriculum Development Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 26<sup>th</sup> April 2022.
- Participated in the ISTE Sponsored 1st International Conference on Recent Innovations in Mechanical Artificial Intelligence and Bio-Mechanical Engineering - ICRIMAIBE 2022 organized by Department of Mechanical Engineering. Navodaya Institute of Technology, Raichur held on 29<sup>th</sup> and 30<sup>th</sup> July 2022
- Participated in the District Level Workshop for Guide Teachers on the theme “**Understanding Ecosystem for Health and Well-being**”, State Committee of National children’s science congress 2022, Tamil Nadu Science Forum on 14<sup>th</sup> September 2022.
- Participated in the Three Days Workshop on Fundamentals of Probability Theory and Detection Estimation Theory, Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli with Pentagram Technologies, India and Pentagram Research UK Ltd., United Kingdom from 6<sup>th</sup> October 2022 to 8<sup>th</sup> October 2022.
- Participated in the International Workshop on “**Big Data Analytics Using Distributed Computing**” Organized by PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli on 23<sup>rd</sup> December 2022.
- Participated in the Workshop on “**Introduction to Math Computing using SageMath**” Department of Mathematics, University of Kerala on 08<sup>th</sup> December 2022- 24<sup>th</sup> December 2022
- Participated in the Science Academies Lecture Workshop on “**Differential Equations and their Applications in Mathematical Modeling**”, PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli. 06-01-2023 and 07-01-2023.
- Participated in the International Workshop on “**Adobe Creative Skill**” through virtual mode at Teerthaker Mahaveer University, Uttar Pradesh under AICTE on 09<sup>th</sup> June 2023.

- Participated in the One day Workshop on “**Effective Use of Virtual Labs**” organized by the Jamal Mohamed College, Tiruchirappalli in collaboration with VALUE@Amrita, Amrita Vishwa Vidyapeetham on 26.09.2023.

### 29. Co-Curricular Activities Achievements

- Participated in the State level Quiz Competition organized by PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 on 06-03-2012.
- Participated in the State level Quiz Competition and won Third prize organized by PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 on 20-02-2013.

### 30. Resource Person/ Chair Person

- Resource person on “**27<sup>th</sup>National Children’s Science Congress-2019**” Organized by Tamilnadu Science Forum is held on SBOIA Higher Secondary School- Trichy on 03.11.2019.
- Resource person for PG (Non-Semester) Programme offered by the Centre for Distance Education, Bharathidasan University, Tiruchirappalli - 24. On 22-02-2020 to 12-04-2020.
- Resource Person for the Webinar on “**Introduction to Mathematical Analysis**” Organized by Department of Mathematics, Shree Venkateshwara Arts and Science College, Gobi-638 455. On 16.12.2021
- Evaluator for 29th National Children’s Science Congress 2021,(A Programme of NCSTC, Govt. of India, New Delhi) Tamilnadu Science Forum, Tiruchirappalli District on 16<sup>th</sup> December 2021.
- Resource Person for the Guest Lecture on “**Fuzzy Graph and Its Applications**” Organized by Department of Mathematics, Parvathy’s Arts and Science College, Dindigul on 23.09.2022.
- Evaluator for 30th National children’s science congress 2022-23, Anna University (BIT Campus), Tiruchirappalli on 26th November 2022.
- Evaluator for 31st National children’s science congress 2023-24, Jamal Mohamed College, Tiruchirappalli on 30th October 2022

### 31. Participation in Faculty Development Programme

- Participated in One Day “**Faculty Enrichment Program Use of NLP Techniques in Teaching**” Conducted by the Department of Information Technology in association with ICT Academy of Tamilnadu held at Jamal Mohamed College, Tiruchirappalli-20 on 5<sup>th</sup> March 2016.

- Participated in the Three-Days **“NLP- Based Faculty Empowerment Programme”** Organized by Internal Quality Assurance Cell of the Jamal Mohamed College, Tiruchirappalli-20 on 17.06.2017 - 20.06.2017.
- Participate in an Online Faculty Development Programme include a demonstration kit with hands on exposure in **“Data Science using Python and R-Programming”** organized by D. K. M. College for Women, Vellore in association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India on 06-09 May 2020.
- Participated in the Faculty Development Program Webinar on **“Mathematical Modeling for Science and Engineering”** Organized by Cauvery College for Women, Trichy on 2<sup>nd</sup> May 2020.
- Participated in the Five Days Faculty Development Program on **“Strategies for Effective Work - Life Balance of Academicians”** Organized by Karpagam College of Engineering, Coimbatore on 04-08 May 2020.
- Participated in the National Level Online Interdisciplinary Faculty Development Program on **“Inclusive Indian Traditions for a Holistic Global Education”** Organized by PSGR Krishnammal College for Women, Coimbatore on 03-09 May 2020.
- Participated in the Online Faculty Development Program on **“Documentation of Graph using LaTeX”** Organized by C.Abdul Hakeem College of Engineering and Technology on 13<sup>th</sup> May 2020.
- Participated in the Online Faculty Development Program on **“Fuzzy Sets and Systems”** Organized by Patrician College of Arts and Science, Chennai on 16<sup>th</sup> May 2020.
- Participated in the Two Days Online Faculty Development Program on **“Online Teaching Methods”** Organized by Nirmala College for Women, Coimbatore on 21-22 May 2020.
- Participated in the Seven days Faculty Development Program on **“Teaching in Globally Connected World”** Organized by Nallamuthu Gounder Mahalingam College, Pollachi on 18-24 May 2020.
- Participated in the Faculty Development Program on **“Next Generation Intelligence”** Organized by St. Peters Institute of Higher Education and Research, Chennai on 20-25 May 2020.
- Participated in the Online Faculty Development Program on **“Algebra and Number Theory”** Organized by Ramco Institute of Technology, Rajapalayam on 26-27 May 2020.
- Participated in a Three Days Faculty Development Program on **“Descriptive Statistics through R-Programming”** Organized by KPR Institute of Engineering and Technology, Coimbatore on 26-28 May 2020.



- Participated in the Ten Days Faculty Development Program on **“Innovative Knowledge Tuning for Academicians”** Organized by St. Peters Institute of Higher Education and Research, Chennai on 18-27 May 2020.
- Participated in a Seven Days International Level Faculty Development Program on **“New Paradigms of Teaching”** Organized by Nallamuthu Gounder Mahalingam College, Pollachi on 22-29 May 2020.
- Participated in a Two Days Online Faculty Development Program on **“Linear Algebra and Research Indicators & Ethics in Research”** Organized by Loyola College, Chennai on 05-06 June 2020.
- Participated in a Two Days Online Faculty Development Program on **“Pure and Applied Mathematics”** Organized by Hindusthan College of Engineering and Technology, Chennai on 06-07 July 2020.
- Participated in a Seven Days Faculty Development Program on **“Redefining Teaching and Learning with the International of ICT”** Organized by IQAC of Holy Cross College, Nagercoil on 01-08 July 2020.
- Participated in the Online Faculty Improvement Program on **“Advances in Linear Algebra and Differential Equations”** Organized by Jamal Mohamed College, Trichy on 09-10 July 2020.
- Participated in the National Level Two Days Faculty Development Program on **“Fuzzy and its Applications”** Organized by The Quaide Milleth College for Men, Chennai on 21-22 July 2020.
- Participated in the Five Days Faculty Development Program on **“Mathematical Concepts By using Free Open Source Softwares (FOSS)”** Organized by BMS Institute of Technology and Management, Bengaluru on 21-25 July 2020.
- Participated in the Faculty Improvement Program on **“E-Content Development”** Organized by IQAC of Jamal Mohamed College, Trichy on 30<sup>th</sup> June to 4<sup>th</sup> July 2020.
- Participated in the One Week International E- Faculty Development Program on **“Fixed Point Theory and Its Applications”** Organized by School of Basic Sciences, Manipur University on 15-19 September 2020.
- Participated in the AICET Sponsored Six Day online Short Term Training Program (STTP) on **“Integral Transforms and Their Applications (ITTA 2020)”** Organized by Shri Vishnu Engineering College for Women, Andhra Pradesh on 26-31 October 2020.
- Participated and Completed AICET Training and Learning (ATAL) Online Faculty Improvement Program on **“ROAD-Response Effectiveness, Organising Self, Attitudinal Shift, Decision Making”** at Maulana Azad National Institute of Technology on 02-06 November 2020.

- Participated in the Faculty Development Program on **“Algebra and Analysis”** Organized by PG & Research Department of Mathematics (Under DBT Star College Scheme), Jamal Mohamed College (Autonomous), Tiruchirappalli. From 09.02.2021 to 11.02.2021.
- Participated in the Online Faculty Development Program on **“Algebra and Analysis”** Organized by IQAC, Jamal Mohamed College (Autonomous), Tiruchirappalli from 21.06.2021 to 25.01.2021.
- Participated in the Three Day National Level Virtual Faculty Development Programme on **“Graph Theory”** Organized by Vellalar College for Women, Erode from 21<sup>st</sup> December 2021 to 23<sup>rd</sup> December 2021.
- Participated in the One Week Faculty Development Program on **“ICT Tools for E-Content Development”** Organized by PG & Research Department of Mathematics (Under DBT Star College Scheme), Jamal Mohamed College (Autonomous), Tiruchirappalli. From 24.01.2022 to 29.01.2022.
- Participated in the Three Day National Faculty Development Programme on **“Effective Teaching and Learning Methodologies for Differential Equations”** Organized by Department of Mathematics, PSGR Krishnammal College for Women, Coimbatore from 25<sup>th</sup> April to 27<sup>th</sup> April 2022.
- participated in the One Week International Faculty Development Programme on **“Frontiers of Data Science in Trending Technologies”** Organized by the Department of Mathematics & Humanities and Department of Computer Science & Engineering, Mahatma Gandhi Institute of Technology, Hyderabad. on 09<sup>th</sup> May - 13<sup>th</sup> May 2022
- Participated in the Faculty Development Workshop on **“Outcome Based Education”** Organized by Curriculum Development Cell of Jamal Mohamed College, Trichy on 07<sup>th</sup> January 2023.
- Participated in the Faculty Development **“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 & Science, Coimbatore on 23.03.2023.
- Participated in the Five Day Faculty Development organized IQAC, Jamal Mohamed College (Autonomous), Tiruchirappalli from 05.06.2023 to 09.06.2023.

#### WEBLINKS

Website	: <a href="https://sites.google.com/d/1QNugCKHI3ltIJKhkbDTNZcPMYrOST_c4/p/1mYn4DR7-E-XmgROEBKR7tOm1gXeUu2RP/edit">https://sites.google.com/d/1QNugCKHI3ltIJKhkbDTNZcPMYrOST_c4/p/1mYn4DR7-E-XmgROEBKR7tOm1gXeUu2RP/edit</a>
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Google Scholar : <https://scholar.google.com/citations?user=m4zXKm4AAAAJ&hl=en>

Research Gate : [https://www.researchgate.net/profile/Mohamed\\_Althaf4](https://www.researchgate.net/profile/Mohamed_Althaf4)

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LinkedIn ID : <https://www.linkedin.com/in/mohamed-althaf-4a11a7152/>