

**Dr. F. M. MASHOOD AHAMED**

No. 22, Alagar Street

Kamaraj Nagar, Airport

Tiruchirappalli – 620 007.

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**CAREER OBJECTIVE**

Looking forward to build my career by utilizing all opportunities to implement my skills and knowledge in order to pursue a long term relationship with the organization.

**EDUCATIONAL QUALIFICATION**

Course	Subject	Institution / University	Year of Passing	Percentage of Marks
Ph.D.	Chemistry (Organic synthesis)	Jamal Mohamed College (Bharathidasan University), Trichy.	2017	---
M.Sc.	Chemistry	Khadir Mohideen College (Bharathidasan University), Trichy.	2007	72
B.Sc.	Chemistry	Jamal Mohamed College (Bharathidasan University), Trichy.	2005	60.1
HSC	Computer Science	Kalaimagal Matric Hr. Sec. School, Kattumannar koil, Cuddalore (Dt.)	2001	60.5
SSLC	State Board	Muslim High School, Ayangudi, Cuddalore (Dt.)	1999	65.2

**WORK EXPERIENCE:**

**June 2013 – till date:** Working as Assistant Professor of Chemistry

Jamal Mohamed College (Autonomous), (Affiliated to Bharathidasan University), Tiruchirappalli-620 020, Tamilnadu, India.

## SUBJECTS BEING HANDLED

- Organic Chemistry
- Organic Spectroscopy (UV-Vis, IR & Mass)

### Oct 2007-Apr 2008: Worked as higher secondary School Teacher

Periyar Centenary Memorial Higher Secondary School, Tiruchirappalli-20

- Handling Chemistry Classes for middle school and higher secondary students
- Conducting Practical for students
- Acted as Examiner (Invigilator, Question paper setting, Examination paper evaluation)

## RESEARCH EXPERIENCE:

2012 – 2016 Ph.D. (Organic synthesis)

**Title:** “Synthesis, Characterization antimicrobial and Cytotoxicity studies of Morpholine and 1,4-dihydropyridine derivatives derived via multi Component reactions”

## RESEARCH GUIDANCE:

Degree	Completed	Pursuing
M.Sc.	41	5
M.Phil.	5	--

## TEACHING SKILLS

- Motivating/Encouraging the students in informative ways
- Developing the learning skills of the students
- Excellent demonstration
- Being positive learner
- Thorough knowledge in subjects dealt with

## PATENTS

1. Novel Methyl A-D-Rhamnopyranoside Analogues Against Anthrax: Molecular Dynamics Simulations, Molecular Docking, Density Functional Theory, And Admet Studies **(202211025776, Published on 06.5.2022)**
2. Nanomaterial Composites for Electrochemical Detection of Phenol **(202231042301, Published on 05.08.2022)**
3. System for performing molecular modeling studies and density function theory calculations of new  $\alpha$ -aminophosphonates with amlodipine as a potential inhibitor of the SARS-CoV-2 main protease **(Germany, Awarded on 25.08.2022)**

## RESEARCH PUBLICATIONS

1. FeCl<sub>3</sub> catalysed C-N coupling reaction between cyclic ethers and heterocyclic amines. ***European Journal of Chemistry* 5 (4) (2014) 612.**
2. Synthesis, characterization and antimicrobial studies of novel compound and its metal complexes derived from nicotinic acid. ***Der Chemica Sinica*, 2014, 5 (5) 81.**
3. Crystal structure of 3-(morpholin-4-yl)-1-phenyl-3-(pyridin-2-yl)propan-1-one. ***Acta Cryst.* (2015) E71.**
4. Spectral Characterization and Antimicrobial screening of a few Mannich bases. ***IJPC* (2015) 05 (11).**
5. Crystal structure of Diethyl 4-(3-chlorophenyl)-2-methyl-6-phenyl-1,4-dihydropyridine-3,5-dicarboxylate. ***IUCrData* (2016).**
6. Diethyl 4-(3-chlorophenyl)-2,6-diphenyl-1,4-dihydropyridine-3,5-dicarboxylate. ***IUCrData* (2019).**
7. Synthesis, Characterization, DFT and antimicrobial studies of some azomethine and  $\beta$ -amino derivatives. ***BEPLS Vol 10 [2] 2021.***
8. Aminopyridine derived azomethines as potent antimicrobial agents, ***Materials today proceedings* (2021) 47(9):2053-2061.**

9. Molecular structure determination, spectroscopic, quantum computational studies and molecular docking of 4-(E)-[2-(benzylamino)phenylimino) methyl-2]ethoxy phenol, **Journal of Biomolecular structure and dynamics 2022.**
10. Structural, vibrational spectroscopy, molecular docking, DFT studies and antibacterial activity of (E)-N1-(3-chlorobenzylidene)benzene-1,4-diamine, **Journal of biomolecular structure and dynamics 2022.**
11. Synthesis and characterization of a novel Mannich base benzimidazole derivative to explore interaction with human serum albumin and antimicrobial property: experimental and theoretical approach, **Journal of biomolecular structure and dynamics 2022.**
12. Molecular Dynamics Simulation, QSAR, DFT, Molecular Docking, ADMET, and Synthesis of Ethyl 3-((5-Bromopyridin-2-yl)Imino)Butanoate Analogues as Potential Inhibitors of SARS-CoV-2, **Polycyclic Aromatic Compounds 2023.**
13. Insights into in-vitro studies and molecular modelling of the antimicrobial efficiency of 4-chlorobenzaldehyde and 4-methoxybenzaldehyde derivatives, **Journal of Biomolecular Structure and Dynamics, 2023.**

#### **PAPER PRESENTATION IN CONFERENCES/ SEMINARS**

1. Presented a paper entitled in the Two-day National conference on **“Current Trend in Chemistry Research” (NCTCR-2013)** organized by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli on 27<sup>th</sup> and 28<sup>th</sup> February **2013.**  
**Title:** “An orthorhombic polymorph of (E)-N’-(2-furylmethylene) benzohydrazide”
2. Presented a Paper in the **“International Conference on Chemical and Environmental Research” (ICCER-2014)** Sponsored by UGC, organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 11<sup>th</sup> & 12<sup>th</sup> March, **2014.**  
**Title:** “Vanillin derived antimicrobial agents and their characterization”
3. Presented a Paper in the Two-Day National Conference on **“Advancement in Materials Science” (AMS-2014)** Sponsored by TEQIP II, organized by Department of Chemistry, Coimbatore Institute of Technology, **Coimbatore** on September 26<sup>th</sup> and 27<sup>th</sup> September **2014.**

**Title:** "Synthesis, Characterization and X-ray Diffraction studies of 3-morpholino-1-phenyl-3-(pyridine-2-yl)propan-1-one"

4. Presented a Paper in the UGC Sponsored National Seminar on **“Current Scenario In Material Chemistry” (CSIMC-2015)** organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 9<sup>th</sup> & 10<sup>th</sup> February, **2015**.  
**Title:** “Synthesis, Characterization and Anti-microbial Studies of Dihydropyridines via Hantzsch Four-Component Reaction”
5. Presented a Paper in the UGC Sponsored International Conference on **“International Conference on Chemical and Environmental Research” (ICCER-2015)** organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 17<sup>th</sup> December, **2015**.  
**Title:** “Synthesis and Characterization of 3,4-Dihydropyrimidine-2(1H)-one using ionic liquids”
6. Presented a Paper in the UGC Sponsored International Conference on **“International Conference on Chemical and Environmental Research” (ICCER-2017)** organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 7<sup>th</sup> Jan **2017**.  
**Title:** “Design Synthesis, Spectral Characterization of 1,4-Dihydropyridines and their cytotoxicity studies”
7. Presented a Paper in the UGC Sponsored National Conference on **“Recent Developments in Chemistry” (NCRDC-2018)** organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 20<sup>th</sup> January, **2018**.  
**Title:** “Synthesis and spectroscopic studies of some azomethine Compounds derived from heterocyclic amines”
8. Presented a Paper in the **“International Conference on Synthetic Materials for Science and Engineering Applications” (SMSEA-2018)** organized by Department of Science & Humanities M. Kumarasamy College

of Engineering, Karur on 11<sup>th</sup> April, **2018**.

**Title:** “Synthesis, spectral characterization and anti-microbial screening of some azomethine compounds”

9. Presented a Paper in the “**National Conference on Advances in Applied Chemistry**” (**NCAAC-2018**) organized by PG & Research Department of Chemistry, St. Joseph’s College (Autonomous), Tiruchirappalli on 14<sup>th</sup> December, **2018**.

**Title:** “Antimicrobial screening of some azomethine compounds derived from substituted benzaldehyde”

10. Presented a Paper in the International Seminar on “**Recent Trendes in Bioinorganic Chemistry**” (**RTBIC19**) organized by Department of Chemistry & Loyola Institute of Frontier Energy (LIFE), Loyola College (Autonomous), Chennai on 18<sup>th</sup> February, **2019**.

**Title:** “Aminopyridine derived azomethines as potent antimicrobial agents and their spectral charcterization”

11. Presented a Paper in a Two-Day National Conference on “**Recent Innovations in Phytochemistry**” (**RIPC-2019**) organized by PG & Research Departments of Chemistry & Botany, J. J College of Arts & Science (Autonomous), Pudukottai on 21<sup>st</sup> & 22<sup>nd</sup> August, **2019**.

**Title:** “*In-vitro* and *In-silico* antimicrobial evaluation of aminopyridine derivatives”

12. Presented a Paper in a Two-Day National Seminar on “**Recent Trends in Biological NanoChemistry**” (**RTBNC-2020**) organized by Department of Chemistry, Dr. Zakir Husain College, Ilayangudi on 22<sup>nd</sup> & 23<sup>rd</sup> January, **2020**.

**Title:** “Synthesis, Characterization and in-silico antimicrobial and anti-inflammatory studies of a pyrimidinothione”

13. Presented a Paper in a UGC Sponsored One-Day International Seminar on “**Emerging Trends in Chemistry & Energy Science**” organized by PG &

Research Department of Chemistry, Saraswathi Narayanan College  
(Autonomous), Madurai on 7<sup>th</sup> February **2020**.

**Title:** “Synthesis, Characterization and in-silico hypertensive studies of a pyrimidinothione”

14. Presented a paper in in the two days virtual International Conference on multidisciplinary aspects in Chemistry (ICMAC-2022) organized by the Department of Chemistry, Sri Ramakrishna college of Arts and Science, Coimbatore during 20 & 21<sup>st</sup> January **2022**.

**Title:** “Antidiabetic and Antioxidant activity of N-Phenyl urea derivative”

15. Presented a paper in an International Conference on “Recent Advancement in Therapeutics” (ICRAT-2022) Organized by Department of Biochemistry, Srimati Indra Gandhi College, Tiruchirappalli on 17<sup>th</sup> August **2022**.

**Title:** “Antioxidant activity of some 1,4-dihydropyridine derivatives”

16. Presented a paper in an International Conference on “Research in Contemporary era” Organized by Indian Academic Researchers Association (IARA), Indian Accounting Association (IAA) in collaboration with Arasu College of Arts and Science for Women, Karur on 17<sup>th</sup> and 18<sup>th</sup> March **2023**.

**Title:** “In-Vitro Antimicrobial and Antidiabetic studies of some nitro benzaldehyde derivatives”

#### **PARTICIPATION IN CONFERENCES/ SEMINARS**

1. Participated in a Two-day National seminar on “Frontier Areas of Chemistry” organized by Post Graduate Department of Polymer Chemistry, MES Keveeyem College, Valanchery, **Kerala** on 5<sup>th</sup> and 6<sup>th</sup> December **2012**.

2. Participated in the UGC Sponsored National Seminar on “**Nano Science and Materials Processing**” (NLMP-2013) organized by PG & Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli on 9<sup>th</sup> March, **2013**.

3. Participated in a one-day inter-collegiate workshop on **“E-Content Development for Teaching-Learning”** Organized by Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Tiruchirappalli on 22<sup>nd</sup> December, **2015**.
4. Participated in the one-day international Seminar on **“Chemical Biology”** Organized by Centre for Research and Development (CRD), PRIST University, Thanjavur on 29<sup>th</sup> December, **2016**.
5. Participated in the three-day **“NLP-Based Empowerment Programme”** Organized by Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Tiruchirappalli on 17<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> June, **2017**.
6. Participated in the Department of Biotechnology (DBT-Govt. of India) Sponsored three-day Regional workshop on **“Research Based Pedagogical Tools”** Organized by IISER Pune, MHRD, Govt. of India and SRM University, Ramapuram, Chennai on 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> September, **2017**.
7. Participated in a one-day National workshop on **“Life Skills”** Organized by PG Department of Social Work, Jamal Mohamed College (Autonomous), Tiruchirappalli on 8<sup>th</sup> February, **2018**.
8. Participated in a one-day workshop on **“Career Opportunities in Chemistry”** Organized by Department of Chemistry, SASTRA Deemed to be University, Vallam, Tanjore on 9<sup>th</sup> February, **2019**.
9. Participated in an Orientation Programme on **“Preparing Course Outcomes in the Curriculum Design”** Organized by Curriculum Development Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 3<sup>rd</sup> January, **2020**.
10. Participated in the **“Orientation Programme on MOOC’s and e-Learning”** Organized by Department of Library, Jamal Mohamed College (Autonomous), Tiruchirappalli on 29<sup>th</sup> January, **2020**.



11. Participated in the workshop on “**Edmodo ICT Tool**” Organized by Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Tiruchirappalli on 4<sup>th</sup> February, **2020**.

12. Completed an online course on Innovation Ambassador training (Foundation Level), Conducted by **MoE’s Innovation Cell (Government of India)** & AICTE from **30<sup>th</sup> June 2021 – 30<sup>th</sup> July 2021**.

#### **ONLINE COURSES COMPLETED**

1. Fundamentals of Spectroscopy, NPTEL, Jan – Apr 2020
2. Biological Inorganic Chemistry, NPTEL, Jul – Oct 2022
3. “Refresher Course on selective topics in organic chemistry phase – IV”- Aug 2023

#### **FACULTY DEVELOPMENT PROGRAM**

1. Participated in an online Faculty Development Programme organised by Department of Chemistry, D.K.M. College for Women, Vellore, TamilNadu in association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India from 04.05.2020 to 10.05.2020.
2. Participated in online National Level Faculty Development Program (FDP) on “Materials for Photonic Applications” conducted during 9th-13th August, 2021.
3. Attended A Three Day Virtual Faculty Development Programme on "Emerging Trends in Chemistry"organised by the Department of Chemistry,Kongu Engineering College, Perundurai, Erode from 13.12.2021 to 15.12.2021.
4. Participated in International one week Faculty Development Programme on Research Methodology, from 2<sup>nd</sup> May – 7<sup>th</sup> May 2022, Organized by Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra, India.
5. Participated in National one week Faculty Development Programme on ICT Tools for Effective Teaching and Learning, from 23<sup>rd</sup> May – 28<sup>th</sup> May 2022, Organized by Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra, India.
6. Participated in a 5-day faculty development program on Interdisciplinary Translational Science & Engineering organized by Centre for Biomaterials, Cellular

& Molecular Theranostics (CBCMT) at Vellore Institute of Technology (VIT), Vellore, India, from 18th to 22nd of July 2022.

7. Participated in the SIX DAY FACULTY DEVELOPMENT PROGRAM on “ADVANCES IN ANALYTICAL TECHNIQUES” organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram campus, Chennai in association with Society for Advancement in Chemical Sciences and Education (SACSE), IGCAR, Kalpakkam from 25th July 2022 to 30th July 2022.

### AWARDS & RECOGNITION

1. **The best poster presentation award** in the two days virtual International Conference on multidisciplinary aspects in Chemistry (ICMAC-2022) organized by the Department of Chemistry, Sri Ramakrishna college of Arts and Science, Coimbatore during 20 & 21<sup>st</sup> January 2022.
2. **Young Researcher Award - 2022**, Awarded by Research Education Solutions, Visakapattinam, Andhra Pradesh.
3. **Best Teacher Award - 2022**, Awarded by Institute of Scholars (InSc), Bangalore, Karnataka.

### Other Information

- Member of Editorial Committee in the Book of Abstracts, published by Jazym Publications, ISBN 978-93-81521-60-1 released at Two-day National Conference On “**Current Scenario In Material Chemistry**” (CSIMC-2015)
- Acted as a member of Organizing Committee in the state level intercollegiate extravaganza “**Symphoria '17**” organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 31<sup>st</sup> January, **2017**.
- Acted as a Jury in the state level 25<sup>th</sup> National children’s Science Congress-2017, Coordinated by **Tamilnadu Science Forum (TNSF)**, held at Sathyabama Institute of Science and Technology, Chennai on 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> December **2017**.
- Acted as a member of Organizing Committee in the state level intercollegiate extravaganza “**Symphoria '18**” organized by PG & Research Department of

Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 20<sup>th</sup> February, 2018.

- Acted as a member of Organizing Committee in the state level intercollegiate extravaganza **“Symphoria ’19”** organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 13<sup>th</sup> February, 2019.
- Acted as a member of Organizing Committee in the state level intercollegiate extravaganza **“JAM CHEM FEST 2020”** organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 27<sup>th</sup> February, **2020**.
- Acted as a **Jury** in the **National Science Day 2020** organized Jamal Mohamed College (Autonomous), Tiruchirappalli on 28<sup>th</sup> February, **2020**.
- Acted as **Co-Convener** in the **National Science Day Celebrations** organized Jamal Mohamed College (Autonomous), Tiruchirappalli from 25<sup>th</sup> to 28<sup>th</sup> February, **2022**.
- Acted as **Convener** in the 7<sup>th</sup> International Conference on **Innovations in Chemical and Environmental Research (ICICER 2022)** organized by PG and Research Department of Chemistry, Jamal Mohamed College on 25<sup>th</sup> May **2022**.
- Acted as a member of Organizing Committee in the National level intercollegiate extravaganza **“JAM CHEM FEST 2023”** organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 14<sup>th</sup> March, **2023**.
- **Editorial board member** in the College magazine **“The Jamal”** from **2018-Till date**.
- **Treasurer, Baithumal Society** from **June 2021- Till date**.
- **Member, Press Committee 2021-2022**.
- **Member, Curriculum Development Cell**.
- **Research Core Committee member**

## PERSONAL PROFILE

**Father's Name** : Mr. A. R. Fazul Mohamed  
**Mother's Name** : Mrs. Suhaitha Begum  
**Gender** : Male  
**Marital Status** : Married  
**Date of Birth** : 06.07.1984  
**Nationality** : Indian  
**Religion** : Islam  
**Present Address** : No. 22, Alagar Street  
Kamaraj Nagar, Airport  
Tiruchirappalli – 620 007.  
**Permanent Address** : 395/3, New Street, Ayangudi (Post)  
Cuddalore (Dist) – 608 306  
Tamil Nadu, India

### **Declaration**

I hereby declare that all the above mentioned particulars are true and correct to the best of my knowledge and belief.

Trichy-20

Yours faithfully

**(F. M. MASHOOD AHAMED)**