

Dr. F. M. MASHOOD AHAMED

No. 22, Alagar Street
Kamaraj Nagar, Airport
Tiruchirappalli – 620 007.
E-mail: mamashood@jmc.edu
Mobile: +91 9500376364

**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 α -aminophosphonates with amlodipine as a potential inhibitor of the SARS-CoV-2 main protease **(Germany, Awarded on 25.08.2022)**

RESEARCH PUBLICATIONS

1. FeCl₃ 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 β -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 27th and 28th 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 11th & 12th 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 26th and 27th 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 9th & 10th 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 17th 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 7th 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 20th 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 11th 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 14th 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 18th 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 21st & 22nd 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 22nd & 23rd 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 7th 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 & 21st 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 17th 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 17th and 18th 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 5th and 6th 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 9th 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 22nd 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 29th 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 17th, 19th and 20th 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 7th, 8th and 9th 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 8th 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 9th 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 3rd 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 29th January, **2020**.

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

12. Completed an online course on Innovation Ambassador training (Foundation Level), Conducted by **MoE’s Innovation Cell (Government of India)** & AICTE from **30th June 2021 – 30th 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 2nd May – 7th 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 23rd May – 28th 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 & 21st 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 31st January, **2017**.
- Acted as a Jury in the state level 25th National children’s Science Congress-2017, Coordinated by **Tamilnadu Science Forum (TNSF)**, held at Sathyabama Institute of Science and Technology, Chennai on 8th, 9th and 10th 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 20th 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 13th 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 27th February, **2020**.
- Acted as a **Jury** in the **National Science Day 2020** organized Jamal Mohamed College (Autonomous), Tiruchirappalli on 28th February, **2020**.
- Acted as **Co-Convener** in the **National Science Day Celebrations** organized Jamal Mohamed College (Autonomous), Tiruchirappalli from 25th to 28th February, **2022**.
- Acted as **Convener** in the 7th International Conference on **Innovations in Chemical and Environmental Research (ICICER 2022)** organized by PG and Research Department of Chemistry, Jamal Mohamed College on 25th 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 14th 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)