

**JAMAL MOHAMED COLLEGE (Autonomous)**  
**(College with Potential for Excellence)**  
**Accredited with 'A' Grade by NAAC-CGPA 3.6 out of 4.0**  
**Affiliated to Bharathidasan University**  
**Tiruchirappalli - 620 020.**

**RESUME**

**PG & RESEARCH DEPARTMENT OF CHEMISTRY (SF SHIFT-II)**

**1. Name** : Dr. M. I. FAZAL MOHAMED

**2. Date of birth** : 19.01.1955

**3. Qualification** : M.Sc., M.Phil., Ph.D.

**4. Address:**

Residential:  
12 / 4, Anna Nagar,  
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**5. Designation** : **Professor of Chemistry (SF)**  
**MID of Nutrition & Dietetics**

**6. Educational Qualifications:**

S.No.	Examination Passed	Year of Passing	Grade obtained
1.	M.Sc	1977	1 <sup>st</sup> Class
2.	M.Phil	1987	1 <sup>st</sup> Class
3.	Ph.D	1997	Commended

**7. Experience:**  
Undergraduate: 36 Years  
Postgraduate : 31 Years  
M.Phil. : 14 Years

**8. Areas of Specialization** : Synthetic Organic Chemistry, Stereochemistry and Organic Spectroscopy.

**9. Languages known** : Tamil, English and (Arabic - to read only)

**10. Subjects Taught:**

M.Phil. : Organic Chemistry  
Postgraduate : Organic Chemistry  
Under Graduate : Physical Chemistry

**11. Research Supervision:**

**Ph.D** - Completed - **08\***  
Pursuing - **01**  
**M.Phil** – Completed - **34**

\*The candidates who got Ph.D., under my guidance and the title of their Ph.D thesis.

S.No.	Name of the candidates	Title of the thesis	year
1.	Mr. M. Seeni Mubarak	Synthesis and characterization of certain new aza/diaza bicyclic compounds and piperidinone derivatives of biological interest.	2008
2.	Mr. G. Krishnamoorthy	Synthesis and biological activity of certain new Mannich bases of 8-hydroxyquinoline and its derivatives of quinazolin-4-one.	2008
3.	Mr. K. Gokula Krishnan	A study on the solid and liquid waste treatment and disposal in the tanning industries of Tiruchirappalli.	2003 Co-Guide
4.	Mr. M. Palanisamy	Identification of semiochemicals as attractant for banana under field condition.	2012
5.	S. Aruna Devi	Synthesis of Naphthyl Ethers in the Micellar Medium – Their Characterisation and Biological Activities	2012
6.	G. Kanaga Durga Devi	Micellar Mediated Reactions : Synthesis and Characterization of Phenolic Phenacyl Ethers and their Biological Activities	2013
7.	P. Ramesh	Synthesis, Characterization, Curing and Thermal studies of Novel Phenyl Thiourea, Phosphorous and Azomethine containing Epoxy Polymers	2013
8.	A. Sirajunnisa	Extracts of Some Plant Leaves as Green Inhibitors for the Corrosion of Aluminium in Alkaline Medium	2015

## 12. Details of Publications:

1. Preparation of some 3-chloro-substituted-2,6-diarylpiperidin-4-ones, *J.Indian Chem. Soc.*, 70, 1993, 257.
2. Conformational studies on some 3-chloro-substituted-2,6-diarylpiperidin-4-ones by  $^1\text{H}$ -NMR Spectra, *Indian J. Chem.* 36B, 1997, 257.
3. Some derivatives of 3-chloro-substituted-2,6-diarylpiperidin-4-one: A conformational study, *Indian J. Heterocyclic Chem.*, 9, 2000, 209.
4. Synthesis and conformational study of 2,6-bis(dinaphthyl)piperidine-4-one, *Jamal Academic Research Journal: An interdisciplinary*, 1, 2005.
5. Synthesis and Antibacterial Activities of Mannich Bases of 8-Hydroxy quinoline, *Jamal Academic Research Journal: An interdisciplinary*, 3, 2006, 17
6. Synthesis, Antibacterial and Antifungal Activities of Mannich Bases of 8-Hydroxy quinoline derivatives, *Res. J. Chem. Environ.* 10(4), 2006, 93.
7. Synthesis of 2,4 diphenyl -3-azabicyclo[3,3,1]nonan-9-ones. *Indian J. Heterocyclic Chem.*, 18, (2008), 91.
8. A facile synthesis of naphthyl ethers using micellar medium, *J. Chem. Pharm. Res.*, 2(6), 2010, 296.
9. A new route to the preparation of spiroheterocyclic compounds, *Der Chemica Sinica*, 2(1), 2011, 79.
10. Micellar mediated reactions: Synthesis of substituted phenacyl phenolic ethers, *Der Chemica Sinica*, 2(1), 2011, 136.
11. Synthesis and antimicrobial activity of some naphthyl ether derivatives, *Der Chemica Sinica*, 2(2), 2011, 52.
12. A simple and low cost semiochemical based trapping method for the management of banana pseudostem weevil, *odoiporus longicollis* Olivier (Coleoptera: Curculionidae), *Advances in Applied Science Research*, 2(3), 2011, 69.
13. Microwave oven assisted extraction of Banana pseudostem kairomones as attractant of *odoiporus longicollis* Olivier (Coleoptera: Curculionidae): Electroantennogram investigations, *Archives of Applied Science Research*, 3(3), 2011, 213.
14. Synthesis of polyhydric phenolic phenacyl ethers, *Orient. J. Chem.*, 27(1), 2011, 233.
15. Synthesis and Characterization of new spiro heterocycles, *Orient. J. Chem.*, 27(1), 2011, 333.
16. *Acta cryst. E* 67(2011) 974-975 Benzoxy-naphthalene.
17. Green approach to Corrosion inhibition of Aluminium by Senna Auriculata Leaves Extracts in 1N NaOH solution, *IJSEAT*, 2, 2014, 58-71
18. Influence of aqueous extract of *Sida acuta* leaves on Corrosion inhibition of aluminium in alkaline solution, *Der Chemica Sinica*, 5(1), 2014, 148-156.
19. *Vitex negundo* leaves extract as green inhibitor for the corrosion of aluminium in 1N NaOH solution, *J. Chem. Pharm. Res.*, 6(1), 2014, 580-588.
20. The inhibitive Effect of *Ziziphus jujuba* Leaves Extract on the Alkaline Corrosion of Aluminium, *EUJAST, SMART Academy, UK*, 1, 2014, 23-31.

### 13. Details of Papers Presented:

#### International Conferences:

1. Presented a paper in the **International Conference of Indian council of chemists** held at Institute of science, Mumbai during December 28<sup>th</sup> to 30<sup>th</sup> 1995 on the topic "Preparation of some 3-chloro substituted piperidin-4-ones"
2. Presented a paper in **the International Conference the New South Wales Southern Highland Conference on Heterocyclic Chemistry** Organized by university of New Southern Wales, Sydney, Australia, during 5<sup>th</sup> - 9<sup>th</sup> September 1999.
3. Presented a paper in the 45<sup>th</sup> annual convention of Chemists 2008 on **International Conference on Recent Advances in Chemistry** Karnataka University, Darwad, 23<sup>rd</sup>-27<sup>th</sup> November 2008.

#### National Conferences:

4. Presented a paper in the three days seminar on **current Trends in Research in Chemistry** Organised by Bharathidasan University on 28<sup>th</sup> -30<sup>th</sup> march 1990.
5. Presented three papers in UGC Sponsored National Symposium on "**Recent Trends in Heterocyclic Chemistry**" (NSRTHC-2004) Conducted by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchippalli-20 during 24 & 25 September 2004.
6. Presented a paper in UGC sponsored State Level Seminar on "**The New vistas in Spectroscopic Techniques**" paper entitled "Synthesis and characterization of N-methyl-1-2,4-diphenyl-3-azabicyclo[3.3.1]nonan-9-one" conducted by PG & Research Department of Chemistry, Islamiah College, Vaniyambadi, on 20<sup>th</sup> and 21<sup>st</sup> August 2005.

### 14. Details of Seminars / Conferences / Workshops Attended:

1. Attended the **International Conference of Indian council of chemists** held at Institute of science, Mumbai during December 28<sup>th</sup> to 30<sup>th</sup> 1995 on the topic "Preparation of some 3-chloro substituted piperidin-4-ones"
2. Attended workshop on southern Regional CDI Faculty workshop Organised by Resource centre New Delhi-16 on 20<sup>th</sup>-26<sup>th</sup> 1998.
3. Attended workshop on ETV cassette production Organised by Department of Educational Technology Bharathidasan University on 25<sup>th</sup> -26<sup>th</sup> February 1999.
4. Attended seminar on Human Rights Education Organised by Bharathidasan University on 24<sup>th</sup> -25<sup>th</sup> January 2001
5. Participated one day state level seminar on "Quality Enhancement and Sustenance in Higher Education" organized by NAAC at Jamal Mohamed College on 27.03.2002.
6. Participated in the National symposium on "Recent trends in Heterocyclic Chemistry" held at Jamal Mohamed College (24<sup>th</sup> & 25<sup>th</sup> September 2004).
7. Attended Three day UGC sponsored workshop on Curriculum Development and Evaluation held at Jamal Mohamed College (2 & 4 March 2006)
8. Participated in the UGC Sponsored National Level workshop on "**Computational Chemistry**" held on 26, 27, 28 March 2007, organized by the Department of chemistry, Sir Syed College, Kannur Dt, Kerala.
9. Attended two days seminar on "Modern Techniques in Chemistry" organized by Jamal Mohamed College (5 & 6 March 2008).

### 15. Details of Seminars / Conferences / Workshops Organized

1. Organizing Secretary, UGC sponsored State Level Seminar on "**Emerging Trends in Chemistry**" Jamal Mohamed College, Tiruchirappalli 9<sup>th</sup> March 2006.
2. Convener for the seminar on "**Advanced Topics in Chemistry**" Jamal Mohamed College, Trichy on 13<sup>th</sup> & 14<sup>th</sup> March 2007.
3. Organizing secretary for two days seminar on the topic **Frontier Studies in Chemistry** on 9<sup>th</sup> and 10<sup>th</sup> February 2010.
4. Organizing secretary for a two-day National Seminar on **Quality Enhancement and Sustenance in Teaching, Research and Extension in Higher Education Institutions – Prospects and Problems** during 15 & 16<sup>th</sup> April 2010 under the auspices of IQAC.
5. Organizing secretary for one day seminar on **Creating Competitiveness to Excel in Higher Education – A TQM Approach** under the auspices of IQAC on 8<sup>th</sup> December 2010.

### 16. Details of Orientation / Refresher Courses Attended:

1. Attended UGC- Academic staff college - Bharathidasan University sponsored Refresher course on **Stereochemistry** from 22-02-94 to 21-03-94
2. Attended UGC sponsored Refresher course on **Clinical Chemistry in the new millennium** at Seethalakshmi Ramaswami college (autonomous), Trichy-2 from 21-09-2001 to 12-10-2001.

### 17. Details of Study Materials:

Study materials Prepared for PG practical

### 18. Details of serving as Resource Person:

1. Served as resource person and delivered a lecture on **Medicines and Heterocyclic Compounds** at **All India Radio**, Tiruchirappalli which was broadcasted on 28-11-08.
2. Served as resource person and delivered a lecture on **Pharmacological Studies on certain Organic Compounds** at Poompuhar College on 27-02-07.
3. Served as resource person and delivered a lecture on **Conformation and Reactivity** in the AICTE Sponsored Seminar on recent Advances in pharmaceutical Chemistry and Analytical Technology on 24<sup>th</sup> July 2005 at Periyar College of Pharmaceutical Sciences for Girls, Trichy.
4. Served as resource person in the **Mock Peer team** Visit for NAAC accreditation on 14<sup>th</sup> and 15<sup>th</sup> March 2005 at Hajii Karutha Rowther College, Uthamapalayam and assisted them in the preparation of self study Report.
5. Served as resource person and delivered a lecture on **Seterochemical aspects of Medicines** in the AICTE Sponsored Seminar on Recent Trends in Medicinal Chemistry on 27-02-2004 at Periyar College of Pharmaceutical Sciences for Girls, Trichy.
6. Served as resource person and delivered a lecture on **Seterochemical aspects of Heterocycles** in the Bharathidasan University - UGC- Academic Staff College – sponsored Refresher course to College Teachers on 03-06-2000.
7. Served as resource person and delivered a lecture on **Spectral Applications to Stereochemical Studies** in the Bharathidasan University - UGC- Academic Staff College - Sponsored Refresher course to College Teachers on 28.10.1998.
8. Served as resource person and delivered a lecture on **NMR Spectroscopy and its Applications** at Selvam College, Namakkal 2008.

9. Resource person to M.Sc Chemistry - week end programme at Alagappa University Karaikudi 2002- 2005.
10. Resource person to M.Phil Chemistry - Distance Education Programme 2002- 2005.
11. Served as resource person in the **Mock Peer team** Visit for NAAC reaccreditation to Sadakathullah Appa College Tirunelveli during October 2009 and assisted them in the preparation of self study Report.
12. Served as resource person in the Mock Peer team visit to HKRH College, Uthamapalayam, Jan 2011.
13. Inaugurated and delivered a lecture on organic compound as drugs on 24<sup>th</sup> July 2012 at St.Joseph College, Trichy-2.
14. Served Resource person at the Mock Peer Team visit and gave a lecture on **“Role of Teachers in Autonomy”** on 29<sup>th</sup> August 2015 at Sadhakathullh Appa College, Palayankottai, Tirunelveli.

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

- (i) **Proctor**, Kajamian Hostel (1977-1978) and (1982-1983)
- (ii) **Dy. Warden** Kajamian Hostel (1992-1995)
- (iii) **Convener** Students Admission Committee (1992 – 2008)
- (iv) **Convener** CDI programme (2000-2002)
- (v) **Member-in-Charge** for College calendar and Time Table(2003-2008)
- (vi) **Member-in-Charge** for Nutrition and Dietetics Dept. Since 2008.
- (vii) **Co-ordinator, Internal Quality Assurance Cell (IQAC)**, Jamal Mohamed College 2009-2011.
- (viii) **Chief Superintendent**, Central valuation centre of Bharathidasan University.
- (ix) **Bursar of the College from 2011-2013.**
- (x) **Dean of Science (2012-13)**

#### 20. Details of in-charge / Membership in Committees for Autonomous Programme Implementation:

- (i) Convener, Students Admission committee.
- (ii) Member, Academic Audit Committee (2007-2009).
- (iii) Member, IQAC (2007-2009).
- (iv) Member, Examination committee (2007-2009).
- (v) Co-ordinator, *IQAC* from 2009-2011.
- (vi) Member, Academic Council, Jamal Mohamed College.
- (vii) Member, Governing Council (2011-13).
- (viii) Dean, Faculty of Science (2012-13).
- (ix) Bursar of the College (2011-13).

#### 21. Details of in charge / Participation in Extracurricular Activities: (NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Convener, campus Diversity initiative (a FORD foundation USA Project) 2000-2002

#### 22. Details of Participation in Consultancy, Training, and Development etc.:

Served as

- (i) Member, PG Board of studies, Bharathidasan University, Trichy, India.
- (ii) Member, Board of studies, AVVM Sri Puspham College poondi. Tamilnadu, India.

- (iii) Member, Board of Studies, Poompuhar College, Melaiyur, Tamilnadu, India.
- (iv) Chairman, Board of studies, Nutrition and Dietetics, Jamal Mohamed College, Trichy, Tamilnadu, India.(2008-till date)
- (v) Member, PG Board of Studies, Jamal Mohamed College,Tamilnadu, India (2004-2012)
- (vi) Member, Staff Selection Committee, St. Joseph's College, Trichy (2012 & 2013)

**23. Government Funded Research Project:**

Successfully completed one minor research project funded by University Grands Commission (UGC) New Delhi on the topic ***Synthesis of some Nitrogen Containing Heterocycles - A Stereochemical and Biological study*** during the year 2000 and the results were presented as a paper was presented in the International Conference, The New South Wales Southern High land Conference on Heterocyclic Chemistry Organized by **University of New South Wales, Sydney, Australia**, on 5<sup>th</sup>-9<sup>th</sup> September 1999.

**24. Countries visited:**

Australia, Singapore and Saudi Arabia.