



JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)
Tiruchirappalli - 620 020.

Dr. A. SAMSATHBEGUM
samsathshanavas@gmail.com
9952140568

1. Name : Dr. A. Samsath Begum

2. Designation : Assistant Professor

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

4. Date of birth : 01.06.1985

5. Address:

Office : P.G & Research Department of Chemistry (SF),
Jamal Mohamed College (Autonomous),
Tiruchirappalli – 620 020,
Tamil Nadu,
India.
Email: samsathshanavas@gmail.com
Mobile: +91-9952140568.

6. Educational Qualifications:

S.No.	Examination Passed	College / University	Year of Passing
1.	B.Sc. (Chemistry)	Holy cross College, (Bharathidasan University), Trichy.	2005
2.	M.Sc. (Chemistry)	Bishop Heber College, (Bharathidasan University), Trichy.	2007
3.	M.Phil. (Chemistry)	Prist University, Tanjore.	2009
4.	Ph.D. (Chemistry)	Jamal Mohamed College, (Bharathidasan University), Trichy.	2019

7. Experience : **Undergraduate:** 08 Years
: **Postgraduate** : 08 Years

8. Areas of Specialization : Physical chemistry, Organic chemistry
Analytical chemistry, Green chemistry

9. Languages known : Tamil, English, Hindi & Urdu

10. Subjects Taught:

Under Graduate/ Postgraduate : 1. Inorganic Chemistry
2. Organic Chemistry
3. Physical Chemistry
4. Analytical Chemistry
5. Applied Chemistry
6. Green Chemistry and
7. General Chemistry

11. Teaching Experience:

- 2007-2009: M.A.M College of Engineering and polytechnic college (Affiliated to Anna University of Technology, Tiruchirappalli), Siruganur, Tiruchirappalli, Tamilnadu, India.
- 2012-Till Date: Jamal Mohamed College (Autonomous), (Affiliated to Bharathidasan University, Tiruchirappalli, Tamilnadu, India.

12. Research Area of Interest:

- ❖ Corrosion studies
- ❖ Phytochemical studies
- ❖ Microwave assisted synthesis

13. Projects Guided:

✓ **Guided project for 28 M.Sc students**

2012 - 2013	-	2 students
2013 - 2014	-	3 students
2014 - 2015	-	3 students
2015 - 2016	-	4 students
2016 - 2017	-	4 students
2017 - 2018	-	4 students
2018 - 2019	-	4 students
2019 - 2020	-	4 students

13. Additional Responsibilities:

- ❖ Acted as a **Organizing committee member** in the **Inter collegiate Extravaganza** “JAM CHEM FEST-2K20” organized by PG & Research department of Chemistry , Jamal Mohamed College (Autonomous), Tiruchirappalli, held on 27th February 2020.
- ❖ Served as a **Organizing secretary** in the **Intra-Department Extravaganza** “CHEM-FIESTA’ 19” organized by PG & Research department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, held on 18th September 2019.
- ❖ Performing as an **Assistant secretary** for **Chemistry association** in the Department of Chemistry(SF), Jamal Mohamed College (Autonomous), Tiruchirappalli, from the academic year 2019-2020.
- ❖ Acted as a **Judge** for oral presentation during **National Nutrition Week** Celebration Nutrizione’19 held on 3rd September 2019, organized by Association of Nutrition and Dietetics & B.Voc. Food Processing and Safety, Jamal Mohamed College (Autonomous), Tiruchirappalli .
- ❖ Acted as **Tutor in charge** for **undergraduate women** students in chemistry department (SF), Jamal Mohamed College (Autonomous), Tiruchirappalli, from 2012 to 2019.
- ❖ Acted as **Tutor in charge** for **postgraduate** and **M.phil women** students in chemistry department (SF), Jamal Mohamed College (Autonomous), Tiruchirappalli, from 2019 to 2020
- ❖ Acted as **Internal** and **External Examiner** for Bharathidasan University, Trichy Practical Examinations in various Colleges.
- ❖ Acted as **Evaluator** for Central Valuation for Bharathidasan University, Trichy conducted in Jamal Mohamed College(Autonomous), Tiruchirappalli from 2015-2020.
- ❖ Handled **Moral Instruction classes** for various department **women** students in Jamal Mohamed College (Autonomous), Tiruchirappalli, India, from 2018 to 2020.

14. Details of Publications:

1. Samsath Begum, A. and Jamal Abdul Nasser, A., An Overview of Plant Extracts As Green Inhibitor For Preventing Corrosion, International Journal of Recent Scientific Research, 8(12), 22343-22348, 2017.
2. Samsath Begum, A., Jamal Abdul Nasser, A. and Susai Rajendran, Corrosion Inhibition by Aqueous Extract of *Tephrosia villosa* Leaves, World Journal of Pharmaceutical Research, 6, 17, 1072-1100, 2017.

3. Samsath Begum, A. and Jamal Abdul Nasser, A., Assessment of Aqueous Extract of *Commelina ensifolia* Leaves As Corrosion Inhibitor on Mild Steel Corrosion in 1.0 N HCl Medium, *Jaetsd Journal for Advanced Research in Applied Sciences*, 5(2), 807-820, 2018.
4. Samsath Begum, A. and Jamal Abdul Nasser, A., Aqueous Extract of *Cyclea peltata* Leaves as Corrosion Inhibitor for Mild Steel in 1.0 N H₂SO₄ by employing isotherms, *European Journal of Biomedical and pharmaceutical sciences*, 5(2), 859-863, 2018.
5. Samsath Begum, A., Jamal Abdul Nasser, A., Mohamed Kasim Sheit, H. and Varusai Mohamed. M, *Abrus precatorius* leaf aqueous extract as a corrosion inhibitor on Mild steel in 1.0 M HCl solution, *International Journal of basic and applied research*, 9(2), 438-450, 2019.
6. Samsath Begum, A., Jamal Abdul Nasser, A., and S.Rajendran, Aqueous Extract of *Commelina ensifolia* Leaves As Sustainable Green Inhibitor for Corrosion on Mild Steel in 1.0 M H₂SO₄ Medium, *International Journal of pharmacy and biological sciences*, 9(2), 26-33, 2019.

15. Details of Papers Presented:

1. Presented a research paper entitled “Synthesis of green luminescent carbon quantum dots from plant seeds using microwave irradiation method” in the “**National conference** on recent trends in materials science (NCRTMS- 2020) organized by **Thiru. Vi. Ka Government Arts College**, Thiruvarur, Tamilnadu on 14th February 2020.
2. Presented a research paper entitled “Green synthesis of corrosion inhibitor from *Gnetum africanum* leaves” in the **International Conference** on Challenges to environment and health (ICCEH-2020) organized by the PG & Research **Department of Zoology**, Jamal Mohamed College (Autonomous), Tiruchirappalli on 30th January 2020.
3. Presented a research paper entitled “Electrochemical evaluation: Inhibitory effect of aqueous extract of green banana peel on the corrosion of mild steel in 0.5M H₂SO₄” in the “**National seminar** on advanced materials” (NSAM- 2020) organized by PG & Research **Department of Physics**, Jamal Mohamed College (Autonomous), Tiruchirappalli on 23rd January 2020.
4. Presented a research paper entitled “*Luffa acutangula* leaves extract as an eco-friendly corrosion inhibitor of mild steel in 1.0M HCl” in the **International Conference** on Chemical

and Environmental Research (ICCER-2020) at Jamal Mohamed College (Autonomous), Tiruchirappalli on 08th January 2020.

5. Presented a research paper entitled “*Chrozophora rotteleri* leaves extracts as an eco-friendly corrosion inhibitor in 0.5M H₂SO₄ medium in the DST-SERB sponsored two days “**National conference** on recent trends in chemistry of materials (NCRTCM- 2019) organized by **Bannari Amman Institute of Technology**, Erode on 11 & 12th October 2019.
6. Presented a research paper entitled “Synthesis and spectral characterization of novel metal complexes” in the “**National conference** on advanced topics in physics (NSATP- 2019) organized by Jamal Mohamed College (Autonomous), Tiruchirappalli on 06th March 2019.
7. Presented a research paper entitled “*Chrysanthemum morifolium* Leaves extracts as an eco-friendly corrosion inhibitor of mild steel in 1.0 M H₂SO₄ in the **International Conference** on “Emerging Trends in chemical sciences organized by **Arulmigu Palaniandavar Arts College For women**, Palani on 6th September 2019 (ICETCS) ”.
8. Presented a research paper entitled “Corrosion Inhibition by naturally occurring *Achillea millefolium* plant extract on mild steel in 1.0 N HCl solution in the **International Conference** on Recent trends in chemistry (ICRTC – 2019) organized by **Dr. R. K. Shanmugam college of Arts and Science**, Kallakurichi on 10th January 2019.
9. Presented a research paper entitled “Inhibition action of *Achillea millefolium* plant leaves extract on mild steel corrosion in 1.0 N H₂SO₄ solution in the **National Conference** on Emerging trends in chemical and biological sciences (ETCBS – 2019) organized by **D. K. M. College for women**, Vellore on 4th January 2019.
10. Presented a research paper entitled “Potential of *Tephrosia vogelii* plant leaves aqueous as a green corrosion inhibitor against mild steel in acidic media” in the **International Conference** on Chemical and Environmental Research (ICCER-2017) at Jamal Mohamed College (Autonomous), Tiruchirappalli on 07th January 2017.
11. Presented a research paper entitled “*Rumex dentatus* leaves extract as a Corrosion Inhibitor for mild steel in 1.0 M H₂SO₄ in the **International Conference** on Chemical and Environmental Research (ICCER-2018) at Jamal Mohamed College (Autonomous), Tiruchirappalli on 19th December 2018.
12. Presented a research paper entitled “*Trichosanthes cucumerina* leaves extract as a Corrosion Inhibitor for mild steel in 1.0 M HCl in the **National Conference** on Chemical and Environmental Research (NCRDC-2018) at Jamal Mohamed College (Autonomous), Tiruchirappalli on 20th December 2018.

13. Presented a research paper entitled “Assessment of aqueous extract of *Commelina ensifolia* leaves as corrosion inhibitor on mild steel corrosion in HCl medium in the **national conference** on “Advances in innovative materials for Energy and Environment (AIMEE – 2017) organized by the Department of Chemistry, **SRM University**, Ramapuram campus held on 13th October 2017.
14. Presented a research paper entitled “Electrochemical studies of *Tephrosia villosa* leaves extract as green corrosion inhibitor for mild steel in acidic medium” in the **International Conference** on Chemical and Environmental Research at Jamal Mohamed College, Tiruchirappalli on 17th December 2015.
15. Presented a research paper entitled “Corrosion inhibition of mild steel using *Enicostema auxillare* leaves extract in hydrochloric acid solution” in the **International Conference** on Chemical and Environmental Research at Jamal Mohamed College, Tiruchirappalli on 11 - 12th March 2014.
16. Presented a research paper entitled “*Delonix elata* leaves extract as corrosion inhibitor for mild steel in hydrochloric acid solution” in the **National Conference** on Current trend in Chemistry Research (NCTCR – 2013) at Jamal Mohamed College, Tiruchirappalli on 27th and 28th Feb 2013.
17. Presented a research paper entitled “Preparation and spectroscopic characterization of some metal complexes with azide ion and benzotriazole ligands” in the **State level seminar** on Emerging trends in chemistry at Jamal Mohamed College, Tiruchirappalli on 9th Mar 2006.

16. Details of Seminars / Conferences / Workshops Participated:

1. Participated actively in the UGC sponsored faculty training programme on “**Food Processing Techniques**” held on 10th and 11th March 2020, organized by **PG and Research Department of Nutrition and Dietetics**, Jamal Mohamed College(Autonomous), Tiruchirappalli
2. Participated in the one day seminar on “**Recent advances in chemical sciences**” (RACS-2020), Organized by PG and Research Department of Chemistry, **Ururu Dhanalakshmi College**, Tiruchirappalli on 2nd March 2020.
3. Participated in the one day basic training programme on “**Human Rights**” sponsored by the National Human Rights commission, New Delhi and Organized by PG and Research **Department of Social Work**, Jamal Mohamed College(Autonomous), Tiruchirappalli, on 12th February 2020.
4. Participated in the “Orientation programme on **MOOC’S and e-Learning**” held on 29th January 2020, organized by **Department of Library**, Jamal Mohamed College (Autonomous), Tiruchirappalli

5. Actively participated in the one day National workshop on “**Application of open sources for statistical analysis in educational researches**”(AOSSAER-2019) organized by Department of Education, CDE, **Bharathidasan university**, Tiruchirappalli held on 29 November 2019.
6. Participated in the Staff enrichment programme on **Ownership Culture** held on 14th June 2019, organized by the **IQAC cell**, Jamal Mohamed College (Autonomous), Tiruchirappalli.
7. Participated in UGC-CPE sponsored two day **workshop on Professional Development for Academic Leadership in Curriculum Design** organized by **Curriculum Development cell**, Jamal Mohamed College (Autonomous), Tiruchirappalli on 18th and 19th Jan 2019.
8. Participated in the **Improving teaching practices – a strategic approach**, organized by the **IQAC cell**, Jamal Mohamed College (Autonomous), Tiruchirappalli on 23rd June 2018.
9. Participated in the three days **NLP based Faculty Empowerment Programme** organized by the **IQAC cell**, Jamal Mohamed college (Autonomous), Tiruchirappalli on 17th , 19th and 20th June 2017.
10. Participated a One Day **State level Symphoria-19** Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 13th February 2019.
11. Participated a One Day **State level Symphoria-18** Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 20th February 2018.
12. Participated a One Day **State level Symphoria-17** Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 31st January 2017.
13. Participated in the **State level Workshop** on “**Organic farming production**” (An Entrepreneurship Programme) organized by **PG and Research Department of Microbiology**, Jamal Mohamed College (Autonomous), Tiruchirappalli on 27 and 28th January 2017.
14. Participated in a one day **Intercollegiate Workshop** on **E-content development for teaching – learning** organized by **IQAC cell**, Jamal Mohamed College (Autonomous), Tiruchirappalli on 22nd December 2015.
15. Participated in 14th **National level student’s symposium** on nanoparticles organized by Department of Chemistry, **Bishop Heber College** (Autonomous), Tiruchirappalli held on 6th and 7th October 2006.

(Dr. A. SAMSATHBEGUM)