

JAMAL MOHAMED COLLEGE

(Autonomous)

Accredited with 'A++' Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0

Affiliated to Bharathidasan University

Tiruchirappalli - 620 020



RESUME

PG & RESEARCH DEPARTMENT OF CHEMISTRY

1. Name : **Dr. R. ABDUL VAHITH**
2. Designation : **Assistant Professor**
3. Qualification : **M.Sc., M.Phil., PGDCA., Ph.D.,**
4. Date of birth : **07.04.1986**

5. Address:

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6. Educational Qualifications:

S.No.	Examination Passed	University / College	Year of Passing
1.	B.Sc. (Chemistry)	V.H.N.S.N College, Virudhunagar. (Madurai Kamaraj University)	2006
2.	M.Sc. (Chemistry)	Jamal Mohamed College, (Bharathidasan University), Trichy.	2008
3.	M.Phil. (Chemistry)	Jamal Mohamed College, (Bharathidasan University), Trichy.	2009
4.	PGDCA	Bharathiar University, Coimbatore.	2012
5.	Ph.D.	Jamal Mohamed College, (Bharathidasan University), Trichy.	2015

7. Experience : Undergraduate : 15 Years
Postgraduate : 15 Years
M. Phil : 8 Years

8. Areas of Specialization: Organic and Environmental Chemistry

9. Languages known : Tamil & English

10. Subjects Taught:

Under Graduate/ Postgraduate/ M.Phil : 1. Inorganic Chemistry
2. Organic Chemistry
3. Physical Chemistry
4. Polymer Chemistry

11. Research Guidance:

Degree	No. of candidates		
	Awarded	Submitted	Perusing
M.Phil	13	-	-
Ph.D	02	-	02

12. Citations:

Google Scholar Citations

Cited by	All
Citations	145
H-index	6
I10-index	5

Scopus Citations

Cited by	All
Citations	25
H-index	2

13. Orientation Programme / Refresher Courses Participated: (04)

1. Participated in the UGC- sponsored 115th Orientation Programme conducted by UGC-HRDC, Bharathiar University, Coimbatore held from 10-05-2017 to 06-06-2017.
2. Participated in the UGC- sponsored Summer School (Refresher Course) in Material Science (Interdisciplinary) conducted by UGC-HRDC, Bharathidasan University, Tiruchirappalli held from 02-03-2018 to 22-03-2018.
3. Participated in the UGC- sponsored Online Refresher Course in Chemistry conducted by UGC-HRDC, Pondicherry University (A Central University), Puducherry held from 15-07-2021 to 28-07-2021.
4. Participated in the UGC- sponsored Online Refresher Course in Chemistry conducted by UGC-HRDC, University of Hyderabad from 10-10-2022 to 22-10-2022.

14. Books/ Book Chapter Edited (02)

1. Recent trends in Research in Chemical Sciences, Pragati Prakashan Educational Publishers, First Edition 2023, ISBN: 978-93-5854-449-7. "The study yielded a sun protection factor (SPF)" Page No: 211-218.
2. Recent Development in Chemical Science, Chyren Publications, Haryana, August - 2023, ISBN: 978-81-963506-2-8. "GIS and Piper trilinear diagram analytical tools using to assess the groundwater quality between Tamilnadu and Pondicherry states, India" Page No: 129-161.

15. Publications: (23)

1. Studies on heavy metal pollution of groundwater sources between Tamilnadu and Pondicherry, India, Pelagia research library, Advances in applied science research, 2012, 3(1):424-429.
2. Applications of water quality Index for groundwater quality assessment on Tamil Nadu and Pondicherry state, India. Journal of Environmental Research and Development. Vol. 8, No. 3, January-March, 2014.
3. Physico-chemical contamination of groundwater in and around Tirunelveli district, Tamil nadu, Pelagia research library, Advances in applied science research, 2014, 5(2):49-54.
4. Water quality assessment of groundwater resources between Tamilnadu and Pondicherry states, India, World journal of pharmacy and pharmaceutical sciences, 2014, volume 3, issue 7, 881-893.
5. Water quality index of groundwater in and around Tirunelveli district, Tamilnadu, India. World journal of pharmacy and pharmaceutical sciences, 2014, Volume 3, Issue 10, 653-661.
6. Quantitative determination of total and fecal coliforms in groundwater between Tamilnadu and Pondicherry states, India. Journal of environmental science and pollution research, 2016, 2 (1), 57-59.
7. Photochemical screening and Anti-microbial activity of *Phyllanthus niruri*, Journal of Advanced Applied Scientific Research, 2017, Volume 1, No. 7.
8. Heavy metal pollution index on groundwater quality between Tamilnadu and Pondicherry states, India. World journal of pharmaceutical Science, 2018, Volume 7, Issue 02, 411-422.
9. In vitro anti-diabetic activity of *Solanum Erianthum*. IAETSD journal for Advanced Research in Applied Sciences, 2018, Volume 5, Issue 03.
10. Applications of piper diagram and water quality index for the quality assessment of groundwater in Senthaneerpuram and Sempattu areas, Tiruchirappalli district, Tamilnadu, India. European journal of biomedical and pharmaceutical sciences, 2018, Volume 5, Issue 02, 901-904.
11. Use of WQI and Hydrogeochemical facies analyses to assess the suitability of groundwater between Tamilnadu and Pondicherry states, India. International journal of basic and applied research, 2018, Volume 8, Number 11, 142-160.
12. In vitro anti-diabetic activity of *Solanum Erianthum*. International journal of research and analytical reviews, 2019, Volume 6, Issue 1, 41-44.

13. GCMS analysis from hydroalcoholic extract of *Solanum Erianthum*. Adalya journal, 2019, Volume 8, Issue 11, 682-689.
14. *Spilanthes acmella* leaves extract for corrosion inhibition in acid medium, MDPI, coatings 2021, 11, 106. 1-23.
15. Impact on Groundwater quality in and around Omalur Taluk, Salem District, Tamilnadu, India, Asian Journal of Organic and Medicinal Chemistry, April 2022, Vol. 7, No.2, 282-296.
16. Analysis of Groundwater quality based on WQI and SAR in and around Salem District, Tamilnadu, India, Bulletin of Environment, Pharmacology and Life Sciences, Volume 1 April 2022.
17. Water Quality Index of Groundwater proximity Ramanathapuram District, Tamilnadu, India, Bulletin of Environment, Pharmacology and Life Sciences, Volume 1 April 2022.
18. Analyzing the quality and stability of ground water for irrigation and human use in Salem district, Tamil Nadu, India, Using a Hydrological Technique, International Journal of Zoological Investigations, Volume 8, December 2022, 48-56.
19. Evaluation of groundwater quality in and around Ramanathapuram district, Tamil Nadu, India by using Hydrogeochemical Facies Analysis and Wilcox Diagram, European Journal of Molecular & Clinical Medicine, Volume 10, Issue 01, 2023, 2681-2689.
20. Synthesis, Characterization and Evaluation of Anticonvulsant/Hypnotic Activity and Toxicity Effect: 3-Methylpyridinium 2,6-Dioxo-5-(2,4,6-Trinitrophenyl)-1,2,3,6-Tetrahydropyrimidin-4-Olate, International Journal of Zoological Investigations, Volume 9, April 2023, 147-152.
21. Appraise the suitability of ground water for drinking and irrigation purpose of using water quality index and USSL diagram in and around Ramanathapuram district, Tamilnadu, India European Chemical Bulletin, Volume 12, Issue 04, 2023, 5948-5957.
22. Corrosion mitigation on orthodontic wire made of SS 18/8 alloy using esomeprazole tablet (Esiloc-40 mg) in artificial saliva, Journal of Saudi Chemical society, Volume 27, Issue 04, July 2023 (101681).
23. Comparative study on ground water quality in proximity of Salem District, Tamilnadu, India, European Chemical Bulletin, Volume 12, Issue 12, 2023, 1949-1958.

16. Reviewer / Editorial Boards: (14)

1. Uttar Pradesh Journal of Zoology, MB International Media and Publishing House, Europe and West Bengal on 11th March 2023.
2. South Asian Journal of Research in Microbiology awarded to certificate of “Excellence of Reviewing” on 21st March 2023.
3. International Journal of Environment and Climate Change awarded to “Certificate of Excellence in Reviewing” on 19th August 2023.
4. Journal of Global Ecology and Environment awarded to certificate of “Excellence in Peer-Reviewing” on 30th August 2023.
5. Asia Pacific Academy of Science Pte. Ltd. awarded to certificate of Section Editor of Micro materials and Interfaces, Singapore from 08-09-2023 to 28-02-2024.
6. International Journal of Environment and Climate Change awarded to “Certificate of Excellence in Reviewing” on 18th September 2023.
7. Journal of Scientific Research and Reports awarded to “Certificate of Excellence in Reviewing” on 31st October 2023.
8. European Journal of Nutrition & Food Safety awarded to “Certificate of Excellence in Reviewing” on 06th March 2024.
9. MB International Media and Publishing House, Europe and West Bengal awarded to “Certificate of Excellence in Peer-Reviewing” on 22nd March 2024.
10. Asian Research Journal of Agriculture awarded to “Certificate of Excellence in Reviewing” on 28th March 2024.
11. Microbiology Research Journal International awarded to “Certificate of Excellence in Reviewing” on 02nd April 2024.
12. Archives of Current Research International awarded to “Certificate of Excellence in Reviewing” on 27th July 2024.
13. Plant Cell Biotechnology and Molecular Biology awarded to “Certificate of Excellence in Reviewing” on 05th August 2024.
14. Microbiology Research Journal International awarded to “Certificate of Excellence in Reviewing” on 28th August 2024.

17. Invited Talks / Judges / Chair Person: (11)

1. Served as a Resource Person for the training programme on “Manufacturing Household Products” (Entrepreneurial Development Program) at Tamil Nadu Urban Habitat Development Board, Periyar Nagar, Nagamangalam Panchayat (Adopted Village), Organized by the PG and Research Department of Social Work in Collaboration with Unnat Bharat Abhiyan Cell, Jamal Mohamed College and Nal Ullangal Trust, Tiruchirappalli on 18th December, 2021.
2. Served as a Resource Person in the training on “Water Quality Parameters” Organized by the PG and Research Department of Zoology, Jamal Mohamed College, Tiruchirappalli on 8th March, 2022.
3. Acted as a Resource Person and delivered a lecture on “Analysis of Water Quality Parameters” in a workshop on “Analytical Tools in Chemical Research” Organized by the PG and Research Department of Chemistry, Thanthai Periyar Govt Arts & Science College (Autonomous), Tiruchirappalli-23 on 24th March, 2022.
4. Acted as a Judge in the event of Chem Sketch in JAM CHEM FEST 2K23 Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 14th March 2023.
5. Served as a Resource Person in the Meri Mati Mera Desh (MMMD) and created awareness programme among Farmers on “NEERINDRI AMAYATHU ULAGU” organized by the National Service Scheme of Jamal Mohamed College (A), on 27th July, 2023 at Poonampalayam Village, Manachanallur Taluk, Trichy.
6. Acted as a Resource Person and delivered a lecture on “Process of Innovative Application in Chemistry” Organized by the PG and Research Department of Chemistry, Selvamm Arts and Science College (Autonomous), Namakkal-637003 on 12th December, 2023.
7. Acted as a Chair Person in the 8th International Conference on Recent Advances in Chemical and Environmental Research (ICRACER-2023) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 20-12-2023.
8. Served as a Resource Person and delivered a talk on “Magalir Suya Velai Vaippu Thittam” organized by the National Service Scheme of Jamal Mohamed College (A), on 12th February, 2024 at Police Colony, Trichy-26.
9. Acted as a Judge in the event of JAM CHEM FEST- 2024 (A State Level Intercollegiate Meet) Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 13th February 2024.
10. Acted as a Resource Person and delivered a lecture on Skill Development: “Postulates of Molecular Orbital Theory and its application” Organized by the PG and Research Department of Chemistry, Theivanai Ammal College for Women (Autonomous), Villupuram on 28th February, 2024.
11. Acted as a Resource Person and delivered a talk on “Domestic Products Preparations and Quality Testing” Organized by the Department of Chemistry, AVS College of Arts and Science (Autonomous), Salem on 22nd July, 2024.

18. Organizing Committee Member: (11)

1. Served as an Organizing Committee Member in an Online National Level Intercollegiate Fest "JAM CHEM FEST- 2K22" Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchy-20 on 25-05-2022.
2. Served as an Organizing Secretary in FDP "Preparation of Winning Research Proposals" Under DBT Star College Scheme Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchy-20 on 08-02-2023.
3. Served as an Organizing Secretary in the One Day National Level Students Conclave on "Innovation and Novel Ideas" Organized by the PG and Research Departments of Mathematics and Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 Under DBT Star College Scheme on 27-02-2023.
4. Served as an Organizing Committee Member in the "Chem-Fiesta- 2023" (State Level Intercollegiate Extravaganza) Organized by the PG and Research Department of Chemistry (SF), Jamal Mohamed College (A), Tiruchirappalli-20 on 01-03-2023.
5. Served as an Organizing Committee Member in the "JAM CHEM QUIZ- 2023" (A National Level One Week Online Quiz Competition) Organized by Department of Chemistry, Jamal Mohamed College (A), Tiruchy-20 from 09-03-2023 to 15-03-2023.
6. Served as an Event Coordinator in the "World Space Week-2023" Organized by Satish Dhawan Space Centre, SHAR, ISRO, Sriharikota in association with Jamal Mohamed College (A), Tiruchy-20 from 06-10-2023 to 08-10-2023.
7. Served as an Organizing Committee Member in the 8th International Conference on Recent Advances in Chemical and Environmental Research (ICRACER-2023) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 20-12-2023.
8. Served as an Organizing Committee Member in the Chem-Fiesta 2024 (A National Level Intercollegiate Extravaganza) Organized by the PG and Research Department of Chemistry (SF), Jamal Mohamed College (A), Tiruchirappalli-20 on 23-01-2024.
9. Served as an Organizing Secretary of the Hands on Training Programme on "Preparation of Chemical Solutions" Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchy-20 during 29th & 30th January 2024.
10. Served as an Organizing Committee Member in the JAM CHEM FEST - 2024 (A State Level Intercollegiate Meet) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 13-02-2024.
11. Served as an Organizing Secretary of the Training Programme on "Good Laboratory Practices" Jointly organized by the PG and Research Department of Chemistry & IQAC, Jamal Mohamed College (A), Trichy-20 held on 7th March 2024.

19. Papers Presented: (41)

1. Evaluation of Physico Chemical and Microbial Standards of Stream Water” of Sirumalaipudhur Taluk, Dindigul (District) Organized by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli-20, Tamilnadu, 5th and 6th March 2008.
2. Impact of Tsunami on Groundwater of the coastal areas of Nagapattinam District, National conference on current Trends in Chemistry organized by Dept. of Chemistry, Bharathiar University, Coimbatore” on 2-3rd December 2010.
3. Assessment of Physico-Chemical status of groundwater of Valavanur area in Villupuram Dist, Tamilnadu, India, State Level Seminar on “New Vistas in Chemistry” (NVS-2012) organized by the PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on the 4th & 5th January 2012.
4. Physicochemical analysis of groundwater samples of karaikal area, Tamilnadu, National Conference on Current Trend in Chemistry Research (NCTCR-2013), Organized by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli-20, Tamilnadu. February 27th & 28th 2013.
5. Pollution status and water quality analysis of groundwater of Tamilnadu and Pondicherry state, India. National Conference on Current Trend in Chemistry Research (NCTCR-2013), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu. February 27th & 28th 2013.
6. Water Quality Index of Groundwater of Tiruchirappalli District, Tamilnadu, India, International Conference on Chemical and Environmental Research (ICCER-2014), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu. 11th & 12th March, 2014.
7. Hydro-Chemical Evaluation of Groundwater in and around Tiruchirappalli, Tamilnadu, India. International Conference on Chemical and Environmental Research (ICCER-2014), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu. 11th & 12th March, 2014.
8. Water Quality Index of Groundwater in and around Tirunelveli district, Tamilnadu, India, 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.
9. Calculation of Water Quality Index of Groundwater around Senthaneerpuram area, Tiruchirappalli District, Tamilnadu, National Conference on Recent Development in Chemistry (NARDC-2018), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu. 20th January 2018.
10. Assessment of Physico-Chemical contamination of groundwater in and around Balammanur village, Dindigul District, Tamilnadu, National Conference on Recent Development in Chemistry (NARDC-2018), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, 20-01-2018.

11. Antimicrobial activity, phytochemical Analysis of GC-MS Study of Leaf Extract From *Achranthes aspera*.L, National Conference on Recent Development in Chemistry (NARDC-2018), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, 20-01-2018.
12. Phytochemical Analysis and Anti-Microbial Activity of *Solanum Melongena*. In the 4th International Conference on Chemical and Environmental Research (ICCER-2018), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli -620 020, Tamilnadu, India, on 19th December 2018.
13. Use of WQI and Hydro geochemical facies analysis to assess the suitability of ground water between Tamilnadu and Pondicherry states, India. In the 4th International Conference on Chemical and Environmental Research (ICCER-2018), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli -620 020, Tamilnadu, India, on 19th December 2018.
14. Structural identification of the phuto constituents of the chloroform extract of *catharanthus roseus*.l using GC-MS In the 5th International Conference on Chemical and Environmental Research (ICCER-2018), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli - 620 020, Tamilnadu, India, on 08th January 2020.
15. Assessment of groundwater quality in and around Ramanathapuram District, Tamilnadu. In the 5th International Conference on Chemical and Environmental Research (ICCER-2020), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli -620 020, Tamilnadu, India, on 08th January 2020.
16. Assessment of ground water quality by using water qualityindex and physico chemical parameters in Attayampatti area, Salem District, Tamilnadu. In the 6th International Conference on Chemical and Environmental Research (ICCER-2020), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli -620 020, Tamilnadu, India, on 12th November 2020.
17. Physico-chemical characteristics of the ground water in and around Karur District, Tamilnadu. In the 6th International Conference on Chemical and Environmental Research (ICCER-2020), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli -620 020, Tamilnadu, India, on 12th November 2020.
18. Photochemical analysis and anti-microbial activity of *solanum torvum*. In the 6th International Conference on Chemical and Environmental Research (ICCER-2020), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli -620 020, Tamilnadu, India, on 12th November 2020.
19. The suitability of groundwater using WQI analyses between Tamilnadu and Pondicherry states, India. In the 5th International Conference on Chemical and Environmental Research (ICCER-2018), organized by PG and Research Department of Chemistry, Jamal Mohamed college (Autonomous), Tiruchirappalli -620 020, Tamilnadu, India, on 08th January 2020.
20. Analysis of Groundwater Quality Based on WQI And SAR In and Around Salem District, Tamil Nadu, India” in the International Research Summit AVLOKAN 2021 titled, “Redefining Social Responsibility and Ethical Leadership”, organized by Faculty Research Cell – Gyanidhi and SRDC – Vidhyanidhi, CMS, JAIN (Deemed-to-be

University) from 2nd to 10th August 2021.

21. Silver nanoparticles of Green Synthesis using *Cycas revolute* (Sago palm) in Water Treatment in the 7th International Conference on Innovations in Chemical and Environmental Research” (ICICER-2022) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 25th May 2022.
22. Phytochemical analysis and anti-microbial activity of *Bryophyllum pinnatum*. L in the 7th International Conference on Innovations in Chemical and Environmental Research” (ICICER-2022) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 25th May 2022.
23. Green synthesis of silver nanoparticles from *Piper Cubeba* L (Tailed pepper) extract and usage in water purification. In the 2nd One Day National Level Conference on “Recent Advances in Chemistry - RAC '22” Organized by Department of Chemistry, Sona College of Arts and Science, Salem-636005, Tamil Nadu, on 07-11-2022.
24. Assessment of groundwater quality of Tiruchirappalli District, Tamil Nadu in the International Conference on “Future Challenges of Microbes in Environment (ICFCME-2023) Organized by the Department of Microbiology, Jamal Mohamed College (Autonomous), Tiruchirappalli, in association with Microbiologists Society, India held on 23rd February 2023.
25. Appraise of groundwater proximity of Tiruchirappalli District, Tamil Nadu in the International Conference on “Influence of Chemistry in the Transition towards Green Economy” organized by Post Graduate & Research Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore during 1st & 2nd March 2023.
26. Evaluation of groundwater quality in and around Gandarvakkottai, Pudukkottai District, Tamil Nadu in the Two Days International Conference on “ Materials and Biological Researchers (ICMBR-2023)” organized by PG & Research Department of Chemistry with IQAC (Internal Quality Assurance Cell), Dr. R. K. S. College of Arts & Science, Kallakurichi on 2nd & 3rd March 2023.
27. Exploration of groundwater quality in and around Eraiyur Sugar Factory, Perambalur District, Tamil Nadu in the Two Days International Conference on “ Materials and Biological Researchers (ICMBR-2023)” organized by PG & Research Department of Chemistry with IQAC (Internal Quality Assurance Cell), Dr. R. K. S. College of Arts & Science, Kallakurichi on 2nd & 3rd March 2023.
28. Corrosion inhibition studies of Copper alloy in Sulphuric acid using green inhibitor in the National Conference on Chemical, Biological and Medical Sciences (NCCBMS-23) Organized by the PG and Research Department of Biochemistry, Thanthai Periyar Govt Arts & Science College (Autonomous), Tiruchirappalli-23 on 07-03-2023.
29. Assessment of groundwater quality in and around Tiruchirappalli District, Tamil Nadu in the National Conference on “Materials and Mathematical Sciences (NCMMS-2023) Organized by School of Advanced Sciences (SAS), Kalasalingam Academy of Research and Education, Krishnankoil held on 30th & 31st March 2023.
30. Investigations on groundwater quality in Tiruchirappalli District, Tamil Nadu in the “National Conference on Emerging Innovations in Chemistry (NCEIC-2023)” Organized by the Department of Chemistry, Paavendhar College of Arts & Science, Thalaivasal, Salem-636 121 on 11-09-2023.

31. Purification of waste water using green synthesized silver nanoparticles of red fruit creeper aqueous extract, "Two days National Conference on Recent Trends in Science and Technology (NCRTST)" Organized by the Department of Chemistry, Physics & Mathematics, held at Sri Kailash Women's College, Periyeri, Thalaivasal (Tk), Salem (Dt) – 636 112 on 11 & 12 September 2023.
32. Groundwater quality assessment in and around Melapalayam, Tirunelveli district, Tamilnadu, 8th International Conference on "Recent Advances in Chemical and Environmental Research" (ICRACER-2023) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 20-12-2023.
33. Comprehensive analysis of groundwater quality in the vicinity of Melapalayam, Tirunelveli district: an in-depth evaluation of physico-chemical parameters, 8th International Conference on "Recent Advances in Chemical and Environmental Research" (ICRACER-2023) organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 20-12-2023.
34. In-vitro anticancer activity of lantana camara leaf extract against a549 and hela cell lines, 8th International Conference on "Recent Advances in Chemical and Environmental Research" (ICRACER-2023) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 20-12-2023.
35. Appraise of groundwater proximity of Tiruchirappalli district, Tamilnadu, 8th International Conference on "Recent Advances in Chemical and Environmental Research" (ICRACER-2023) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 20-12-2023.
36. Comprehensive analysis of groundwater quality in the vicinity of Melapalayam, Tirunelveli District: An in-depth evaluation of Physico-chemical parameters in the International Conference on "New Maerials for Industry and Medicine (NMIM'24)" organized by PG & Research Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore during 30th & 31st January 2024.
37. Study on analysis of groundwater quality Tiruchirappalli District, Tamilnadu in the "Interdisciplinary National Conference on Mathematical, Physical and Chemical Advancements – 2024" Organized by the Departments of Mathematics, Physics and Chemistry, Sri Bharathi Arts and Science College for Women, Pudukkottai on 8th & 9th February 2024.
38. Analysis of groundwater quality proximity to Tiruchirappalli District, Tamilnadu in the International Conference on Artificial Intelligence for Energy and Environmental Science (AIEES-2024) Organized by the Department of Chemistry in association with Selvamm Institution's Innovation Council (SIIC), Selvamm Arts and Science College (Autonomous), Namakkal-637003 on 16th February, 2024.
39. Evaluation of ground water in and around Melapalayam, Tirunelveli District using Water Quality Index in the International Conference on "Frontiers of Sustainable Research in Health Care, Food, Agriculture and Environment Management (ICSURE-2024)" Organized by Guru Nanak Centre for Research association with G.S Gill Research Institute, Guru Nanak College (Autonomous), Chennai-600 042 held from 22-02-2024 to 23-02-2024.

40. Monitoring of groundwater quality of Tiruchirappalli District, Tamilnadu in the International Conference on “Exploring New Horizons in Chemical Sciences (ENHCN-2024)” Organized by the PG & Research Department of Chemistry in Collaboration with CSIR, Cauvery College for Women, Tiruchirappalli on 28th February, 2024.

41. Influence of groundwater quality in Namakkal District, Tamil Nadu in the Two Day International Conference on “Nano Science and Thermodynamics: Fundamental Insights and Practical Applications in 2K24” Organized by the Department of Chemistry, Physics, Mathematics and Geology held at AVS College of Arts and Science (Autonomous), Salem on 29th & 30th August, 2024.

20. Seminars / Conferences / Workshops Attended: (53)

1. Advanced Topic in Chemistry in Jamal Mohamed College, on 13th & 14th March 2007, Tiruchirappalli – 20.
2. Workshop on Micro Reaction Technology for process Intensification in National Institute of Technology (NIT), on 11th January 2008, Tiruchirappalli – 15.
3. Workshop on Social Awareness on Drinking Water Quality in National Institute of Technology (NIT), on 28th February 2008, Tiruchirappalli – 15.
4. Attended UGC sponsored State Level Seminar on “Frontier Studies in Chemistry” held on February 9th and 10th 2010, at Jamal Mohamed College, Tiruchirappalli, Tamilnadu.
5. Participated NAAC sponsored National Seminar on “Quality Enhancement in Teaching, Research and Extension in Higher Education Institutions-Prospects and Problems” organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, during 15th & 16th April 2010.
6. Participated UGC sponsored State Level Seminar on “Recent Trends in Chemical Research (RTCR-2010)” conducted by the PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 during 5th and 6th October 2010.
7. Attended the Seminar on “Creating Competitiveness to excel in higher education – a TQM approach” organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, on 8th December 2010.
8. Participated in the State Level Seminar on “New Vistas in Chemistry” (NVS-2012) organized by the PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on the 4th & 5th January 2012.
9. Participated in the National seminar on “Geoinformatics for River Basin Studies” organized by Dept. of Geology, School of Geosciences, Bharathidasan University, Tiruchirappalli, Tamilnadu. 3rd & 4th March, 2012.
10. Participated in the one-day seminar on “Teaching, Learning and Research in Higher Education – Excellence and Beyond Excellence” organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli -20, during 7th March 2012.
11. Participated in the National Conference on Current Trend in Chemistry Research (NCTCR-2013), Organized by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli-20, Tamilnadu. February 27th & 28th 2013.

12. Participated in the National level seminar on “Innovative green technologies for geologic sequestration of carbon dioxide (CO₂) and to protect atmosphere” organized by Erode Sengunthar Engineering College, Thudupathi, Erode, Tamilnadu. 7th& 8th January, 2014.
13. Participated in the International Conference on Chemical and Environmental Research (ICCE- 2014), Organized by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamilnadu. 11th &12th March, 2014.
14. Participated a One Day Workshop on ‘The Role of a Teacher in the present Scenario’ Organized by the Internal Quality Assurance cell of Jamal Mohamed College (A), Tiruchirappalli on 10th December 2016.
15. Participated a One Day State level Symphoria-17 Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 07th January 2017.
16. Participated a one-day national conference on “Emerging trends in chemical and biological sciences (ETCBS - 2018)” Organized by the Department of Chemistry, D.K.M College for Women (Autonomous), Vellore – 632 001 on 5th January 2018.
17. 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.
18. Participated in the International Seminar on “Emerging Trends in Biological Research (ETBR - 2018)”, Organized by PG & Research Department of Biotechnology and Microbiology, Jamal Mohamed College, Tiruchirappalli, held on 3rd March, 2018.
19. Participated a One Day Workshop on Soft Skills Training Organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 22ⁿ June 2018.
20. Participated a One Day Workshop on ‘Writing Winnable Project Proposal’ Organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 23rd June 2018.
21. Participated a one-day seminar on the “The MHRD Draft proposal for Higher Education Commission of India (Repeal of UGC Act, 1956) Act 2018, Jamal Mohamed College (Autonomous), Tiruchirappalli, held on 14th July 2018.
22. Participated in the 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, held on 18th and 19th January 2019.
23. Participated in the National level seminar on “Advance Topics in Physics (NSATP-19) ” organized by PG and Research Department of Physics, Jamal Mohamed college (Autonomous), Tiruchirappalli held on 06th March, 2019.

24. Participated in the “Staff Enrichment Programme on Ownership Culture” organized by the Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Tiruchirappalli held on 14th June 2019.
25. Participated in the National level seminar on “Recent Advances in chemistry (RAC-19)” organized by PG and Research Department of Chemistry, Theivanai Ammal College for Women (Autonomous), Villupuram, held on 9th August 2019.
26. Participated in the workshop on “Quality enhancement of Research: New Paradigm in Trans- disciplinary approaches and IPR” organized by the Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Tiruchy held on 6th September 2019.
27. 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.
28. 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.
29. Participated a One Day State level Jam Chem Fist’20 Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 27th February 2020.
30. Participated in the FDP on “E-Content Development” organized by the Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Tiruchirappalli from 30.06.2020 to 04.07.2020.
31. Participated a One Day National Conference on “Plants and Environment” virtual mode Organized by Department of Botany, Telangana University, Nizamabad in Collaboration with Council for Green Revolution (CGR), Hyderabad held on 23rd October, 2020.
32. Participated in the National Conference on “Recent Trends in Materials Science and Technology” (NCMST-2020) Organized by Department of Chemistry, Indian Institute of Space Science and Technology, Govt. of India, Department of Space, Thiruvananthapuram, Kerala during December 07-09, 2020.
33. Participated in the 2nd International Conference on “Emerging Trends in Life Sciences (ICETLS-2021) virtual mode Organized by Department of Botany, Telangana University, Nizamabad held on 28th-29th January, 2021.
34. Participated in the Two Weeks International Workshop on “Emerging Trends in the field of Science and Technology” Organized by Department of Physics, Sathyabama Institute of Science and Technology, Chennai, through Zoom form16 to 28 August, 2021.
35. Participated in the webinar on “Patent Filing Process and Challenges” organized by the Intellectual Property Rights Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 30.09.2021.
36. Participated in the 5 Days online Faculty Development Programme on “Effective Teaching” Organized by Department of Applied Sciences, Sri Balaji College of

Engineering and Technology, Jaipur, (Affiliated to Rajasthan Technical University, Kota) held from 20.12.2021 to 24.12.2021.

37. Participated in the Short Term FDP on “Cancer Biology and Drug Delivery” Organized by PG and Research Department of Zoology, Jamal Mohamed College (Autonomous), Tiruchirappalli on 20th, 21st & 22nd January 2022.
38. Participated in the Short Term FDP on “Digital Teaching and Learning” Organized by PG and Research Department of Chemistry, under the DBT star college scheme, Jamal Mohamed College (Autonomous), Tiruchirappalli from 24.01.2022 to 29.01.2022.
39. Participated a State Level Workshop on “Production and Formulation of Bioinoculants” Organized by the Department of Microbiology, Jamal Mohamed College (Autonomous), Tiruchirappalli, in association with IQAC held on 31st March 2022.
40. Attended two days “In-service Teacher Training Program” in Physical Science organized by the Tamil Nadu State Council for Higher Education (TANCHE) held at Thanthai Periyar Govt. Arts and Science College (Autonomous), Tiruchirappalli-620 023 from 05-05-2022 to 06-05-2022.
41. Participated a One day FDP on “Prevalence of fluoride and its optical detection” Organized by PG and Research Department of Chemistry, under the DBT star college scheme, Jamal Mohamed College (Autonomous), Tiruchirappalli on 24.01.2023.
42. Participated in the five days online FDP on “Recent Trends on Research and Development in Chemistry” Organized by PG and Research Department of Chemistry, Theivanai Ammal College for Women(Autonomous), Villupuram, Tamilnadu, India from 13.02.2023 to 17.02.2023.
43. Participated in the One Week Virtual Workshop on “Concepts of Computational Chemistry (WCCC-2023) organized by the Department of Chemistry, Sathyabama Institute of Science and Technology, Chennai from 11.07.2023 to 17.07.2023.
44. Participated in a six days FDP on “Emerging Innovations in Chemistry and Chemical Technology (EICCT-2023) organized by the Department of Chemistry, Arasu Engineering College, Kumbakonam from 11.09.2023 to 16.09.2023 through Virtual mode.
45. Participated in a six days National Level Virtual FDP on “Emerging Modernization in Chemical, Physical and Biological Sciences (CPB-2023) organized by the Department of Chemistry, School of Basic Sciences, VISTAS, Chennai from 25.09.2023 to 30.09.2023.
46. Participated in the Human Chain Formation the big event organized by Kauvery Hospital, Heartcity, Trichy held on 29th September 2023.
47. Participated in a One Week FDP on “Road Map for Intellectual Property Rights” Jointly Organized by IPRC, IQAC and IIC of Jamal Mohamed College (Autonomous), Tiruchirappalli from 08.01.2024 to 12.01.2024.
48. Participated in the five days online FDP on “Recent Trends in Chemical Science” Organized by PG and Research Department of Chemistry, Theivanai Ammal College for Women(Autonomous), Villupuram, Tamilnadu, India from 19.01.2024 to 24.01.2024.
49. Participated in a five days Faculty Development Programme Jointly Organized by PG and Research Department of Chemistry, and IQAC, Jamal Mohamed College (Autonomous), Tiruchirappalli from 05.06.2024 to 09.06.2024.

50. Participated in the webinar on “Latest Research on Additive Manufacturing & Organic Polymers” Organized by EduCare, Taiwan on 26th July 2024.
51. Participated in the five day online FDP on “The role of Intellectual Property Rights in Fostering Innovation and Academic Excellence in Higher Educational Institutions” organized by the Department of Economics, St. Joseph’s College (Autonomous), Tiruchirappalli from 02-09-2024 to 06-09-2024.
52. Participated in the webinar on “Latest Research on Liver & Kidney Cancer Treatments + Biomedical Microsystems” Organized by EduCare, Taiwan on 13th September 2024.
53. Participated in the webinar on “Latest Research on Structures and Mechanisms Underlying Human Diseases & Targeting Treatment for Advanced Cancers” Organized by EduCare, Taiwan on 27th September 2024.

21. Research Projects: (01)

1. Completed Seed Money Research Project Scheme total grant of Rs. **7,500/-** in November 2022, titled “Monitoring the groundwater quality on the bank of Uyyakondan channel at Tiruchirappalli” Sanctioned by the Jamal Mohamed College (Autonomous), Tiruchirappalli-20.

22. Industries / Colleges Visited: (10)

1. Visited *PSGR Krishnammal College for Women*, Coimbatore, for mentorship training to execute DBT Star College Scheme on 09-02-2022.
2. Visited *Stella Maris College*, Chennai, various departments and interact with faculty members to know the activities conducted under DBT Star College Scheme on 01-03-2022.
3. Visited *Soil Testing Laboratory*, Mannarpuram, Trichy from 21-11-2022 to 22-11-2022.
4. Visited *UPASI Tea Research Foundation*, Regional Centre, Coonoor on 17-12-2022.
5. Visited *Marico Limited*, SIPCOT industrial Growth Centre, Perundurai on 21-12-2022.
6. Visited Tiruchirappalli District *Co-operative Milk Producers union Ltd*, Tiruchirappalli on 27-12-2022.
7. Visited *Integrated Farming Systems*, Boothamangalam Village, Koothanallur Taluk, Tiruvarur District on 04-03-2023.
8. Visited *Tamil Nadu Paper Limited (TNPL)*, Unit-II, Manapparai on 17-02-2024.
9. Visited Industrial Chemical Manufacturing Company (ICMC) Pvt Ltd, Tiruchirappalli on 10-09-2024.
10. Visited Linga Chemicals (Agriya Agro Tech) Pvt Ltd, Kappalur, Madurai on 19-09-2024.

23. Awards and Administrative positions held in the college:

- ✓ Received *First Prize* in Deeniyath Competitive Examination, 2007- 2008 conducted by Jamal Mohamed College.
- ✓ Received a *Diploma Certificate* securing first class in the Deeniyath Competitive Examinations, 2006-2008 conducted by Jamal Mohamed College.
- ✓ Served as *Sub-warden* in Khajamian Hostel (2009-2012)
- ✓ Member of JMC Alumni Association (2009 - till date)
- ✓ Department *Member- Board of Studies*-Jamal Mohamed College
- ✓ Department *ERP* Incharge (2019-2020)
- ✓ Department *Examination* Incharge (2018-2022)
- ✓ Department *Internship* Incharge (2020 - 2023)
- ✓ Department *Additional Coordinator* under *DBT Star College Scheme* (2020 – May 2023).
- ✓ Department *Placement Cell* (2022- till date)
- ✓ Department *Examination* Incharge (2023- 2024)
- ✓ Department *Coordinator* under *DBT Star College Status*(June 2023 – till date)
