

Dr. R KARTHIKEYAN, M.Sc.,Ph.D., FICS.

Assistant Professor (SG)

Department of Chemistry, Dr. Ambedkar Govt. Arts College (Autonomous)

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Personal details

Name of the faculty: Dr.R.Karthikeyan

Designation: Assistant Professor of Chemistry (SG)

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

Educational Details

Degree	Month&Year	Institution	Specialization	Class
B.Sc.,	April 1989	BharathidasanUniversity	ChemistryOrganic	First
M.Sc.,	April 1991	Annamalai University	Chemistry	First
Ph.D.	October1999	Annamalai University	Chemistry	Awarded

Teaching Experience

• UG – 26 Years • PG –11 Years

College/University	Post Held	Period
DRAMBEDKAR GOVT. ARTS COLLEGE (AUTONOMOUS) VYASARPADI, CHENNAI 600039.	ASSISTANT PROFESSOR (Selection grade)	26.12.2007 TO TILL DATE

Area of Specialization

• Organic Chemistry / Environmental Chemistry

Research Supervisor

M.Phil.Awarded-03 In Progress -01 (Part Time)

M.Phil.GuideshippapprovalletterNo.**D2/M.Phil./Guide/2014/1452Dated:25JUNE2014**

UniversityofMadras

Membership in Professional Bodies

Fellow, IndianChemicalSociety,Kolkata, FellowshipNo. F/8108

Life Member, IndianScienceCongressAssociation,Kolkata Membership No. L 25361

Board of Studies

Member, UG/PG Board of studies, Queen Mary's College, Chennai, during 2013-2015

Publications in International and National Journals

1. Kinetics and mechanism of oxidative decolourization of food dyes Tartrazine and Ponceau 4R by Trichloroisocyanuric acid in aqueous acetic acid medium, R. Karthikeyan, S. Manivannan and S. Muthubharathi, *International Journal of ChemTech Research* CODEN (USA): IJCRGG ISSN: 0974-4290 Vol.7, No.7, pp 2936-2941, 2015
2. Studies of electrical and humidity sensing properties of ternary mixture of some Transition metal oxides R. Karthikeyan, S. Manivannan and Crystal Y. Wilson, *International Journal of Innovative Research in Science & Engineering* Vol.2 Special Issue 1 (ICAN 2014), Article No.48, 250-254 (2014)
3. Structure reactivity correlations in the oxidation of some substituted oxan-4-ols by Pyridinium chlorochromate (PCC)-A Spectrophotometric study, R. Karthikeyan and G. Mangalam, *Indian J. Heterocyclic Chem.*, 1997.
4. Oxidative cleavage of some oxan-4-ones by acid permanganate—*Oxidation commun*, R. Karthikeyan, G. Mangalam and R. Arul, 1997.
5. Conformational effects upon the oxidation of some 4-oxanols by Pyridinium fluorochromate, R. Karthikeyan, G. Mangalam and R. Gurumurthy, *Indian J. Chem. Sec. B*, 1996.
6. Stereochemical effects in Semicarbazone formation of some substituted 4-oxanones, R. Karthikeyan, G. Mangalam and R. Arul, *Indian J. Chem. Sec. B*, 1995.
7. Steric effects on the oxidation of some substituted 4-oxanones by Pyridinium fluorochromate, R. Karthikeyan, G. Mangalam, and R. Gurumurthy, *Indian J. Chem. Sec. B*, 1995.
8. Kinetics of oxidation of some substituted 4-Oxanones oximes by PCC in aprotic Solvents, R. Karthikeyan, G. Mangalam and R. Arul, *Indian J. Heterocyclic Chem.*, 1994.

Papers Presented in International / National Conference / Proceedings

1. International workshop on emerging materials on modelling for future technology (EMMFT - 2022) has presented a paper on 3rd September 2022 organized by Anna University, Centre for Nano science and technology Chennai-25 in association with Indian Science and Technology Association (ELAVENIL)
2. Participated and presented a paper in National Conference NCPBCB-2020 by Dr. Ambedkar Govt Arts College, Chennai on 03&04 March 2020
3. Quaid-E-Millath Government College for Women (Autonomous), Chennai organized "International Conference on Impact of Nanotechnology on Health and Environment ICINHE-2018 presented a Paper at Quaid-E-Millath Govt. Arts College for Women, Chennai-600 002, during 26th and 27th February 2018.

4. International Conference on Advancements and Challenges in Chemical Sciences (ICACCS 2018) at Pachaiyappa's College, Chennai. on 2 & 3 February 2018.

5. UGC sponsored International Conference on Energy, Water and Environmental Science & Technology (ICEWEST - 2015), Presidency College, (Autonomous), Chennai. 5th & 6th February 2015.

6. University of Madras, Department of Inorganic Chemistry Organized International Conference on Advances in New Materials ICAN 2014 participated and presented a paper* at University of Madras, Chennai-600025, during 20th & 21st June 2014.

7. Phytochemical and mycorrhizal studies on some Medicinal plants"-National Seminar of Enhancement of Quality in Research publications and Recent Research in water, Alternative Energy Resource, Materials and Health (CURIE'11), and acted as Judge for Poster presentation of papers, Auxilium College (autonomous) Vellore. Dec 2011.

8. Analysis of ^1H NMR spectra of some substituted oxan-4-ones", National Conference on Social relevance of recent developments of advanced research in Chemistry, Bharathidasan University, Trichy, 1998.

9. Kinetics of Chlorination of some substituted oxan-4-ols by 1-Chlorobenzotriazole (CBT) Regional Symposium on current trends in Heterocyclic Chemistry, Gandhigram Rural Institute (Deemed University), Gandhigram, 1996.

10. Steric effects upon the oxidation of some substituted oxan-4-ols by Mn(VII) " Conference on Recent advances in Physical Organic Chemistry, VHNSN College, Virudhunagar, 1996.

11. "Oxidative behaviour of some heterocyclic tertiary alcohols towards permanganate", * National Symposium on New Vistas in Chemical Sciences, Nawab Shah Alam Khan Centre, for postgraduate studies and Research, Hyderabad, 1995.

Participation in Conference / Workshop

1. One day Workshop on "Nuances on Documentation Process: Research Proposal, NAAC & NIRF" held on 10th August 2022 Organised by Tamilnadu State Council for Higher Education, Chennai.

2. Three Days Workshop on "NATIONAL LEVEL UGC/CSIR-JRF/NET CHEMICAL SCIENCES WORKSHOP" 27/10/2021 to 29/10/2021, PG & Research Department of Chemistry, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai-106.

3. Online Faculty Development Workshop on "Team-Together Everyone Achieves More" 29th June, 2021 & 30th June, 2021 IQAC Cell, Dr Ambedkar Government Arts College, Vyasarpadi, Chennai-600039,

4. Five days FDP programme on "Introduction to Big Data Analytics (Online Live FDP), 26 April 2021 to 30 April 2021, ICT Academy, Tamilnadu.

5. International Virtual conference on recent advance in Organic Medical and Biological Chemistry, (RAOMBC-2020) 08 and 09 July 2020, VIT University, Vellore.

6. Three day FDP on "Journey of Nanomaterials for Intense applications" from 07.07.2020 to 09.07.2020 organised by Kongu Engineering College, Perundurai, Erode.

7. A one week online Faculty development programme (FDP) on “Online tools for Teaching and Learning” M.V.Muthiah Govt. Arts College for Women, Dindigul from 07.07.2020 to 13.07.2020.
8. Webinar series on Chemistry organised by Queen Mary’s College, Chennai from 10.06.2020 to 13.06.2020
9. Dr. Ambedkar Govt Arts College, Chennai-39, PG & Research Department of Chemistry organized the webinar on Organic Synthesis – Synthon approach and Cheminformatics organised as **Coordinator of organizing committee** on 16.06.2020
10. Participated in the National virtual FDP on recent trends in Advanced Chemistry, E-FDP-RTAC2020), 8th to 13th June 2020, by University of Petroleum and Energy Studies, Dehradun.
11. Three day National Webinar on “Molecular Architecture and Landscape through Spectroscopy Introductory Lectures” 04-06 June 2020 organised by Stella Maris College, Chennai.
12. International Webinar on “Chem-Biogrid-Iwcbg-20” organised by Sri S.Ramasamy Naidu Memorial College, Sattur from June 3 to 9, 2020.
13. Virtual Roundtable on Covid-19 Pandemic: Impact and strategies for Education Sector” organised by INYAS and Science city, Chennai 25 May 2020.
14. International Webinar on Materials for Energy, Environment and Healthcare Applications, held during May 21,22, 2020 organised by Dept of Chemistry, The Gandhigram Rural institute-DTBU, Gandhigram.
15. Dr. Ambedkar Govt Arts College, Chennai-39, Department of Chemistry organized International Webinar on Medicinal Chemistry (IWMC2020) participated as a **member of organizing committee** on 05.06.2020
16. Online Faculty Development programme includes hands on exposure in “GChempaint and LibreOffice Suite Writer” organised by D.K.M. College for Women, Vellore in association with Spoken Tutorial project, IITY Bombay, MHRD, Govt of India from 04.05.2020 to 10.05.2020
17. National Webinar on “Use of Elsevier tools in research workflow organised by University of Madras and Elsevier on 5th may 2020
18. Tamil Nadu State Council for Higher Education (**TANSCH**E) Chennai with technical support of DOTE, Tamil Nadu sponsored Two Day FDP on Design, Develop and Deliver online Courses through MOODLE Platform Participated on May 15 & 16,2020 through online mode.
19. Two days Online FDP on “Open Learning with Open online Tools” organised by IQAC cell, Govt College, Rajahmundry AP on 03-04 May 2020.
20. Dr Ambedkar Govt Arts College, Chennai-39, PG & Research Department of Chemistry organized a two days National Science Day Celebration-CHEMFEST-2020 has organised as **Organising Secretary** on 27.02.2020 and 28.02.2020.
21. Coordinator for National Seminar on Non-Communicable Diseases “**தொற்றுநோய்கள் அல்லாத நோய்களைத் தடுத்தல் மற்றும் மேலாண்மை செய்தல்**”organised by Nutrition FSM and Dietetics, Dr. Ambedkar Govt. College, Autonomous, Chennai, 11-12 Dec 2019.

22. AIFUCTO XXXI Academic Conference on the theme "Towards Scientific and Equitable Education for all" and the seminar on "Education in India at Crossroads: A critical review" held on 23, 24 and 25 November 2018 at Kanyakumari.
23. NUEPA sponsored National Seminar on Changing Paradigms of Higher Education: XII Five Year Plan Initiatives. St. Alusius College (Autonomous) Mangalore, Karnataka, 01 December 2013
24. DST sponsored training programme on "Communication and Presentation Skills for Scientists / Technologists, Institute of Management, Training and Research, Goa, 21-25 October 2013.
25. National symposium on the focal theme SCIENCE FOR SHAPING FUTURE INDIA, organized by Indian Science Congress Association, Chennai Chapter at CLRI, Chennai, 17 & 18 Dec 2012.
26. Workshop on "ART OF SCIENTIFIC ARTICLE WRITING", Sponsored by TANCHE, Chennai, organised by Periyar E. V. R. College (Autonomous) Trichy, 11 & 12 March 2011.
27. UGC Sponsored 'National Workshop for Research Guides', Pondicherry University, 23 & 24 SEP 2010.
28. FDP on "Intellectual Property rights- Concepts & Concern" organised by Academic Staff College, VIT University on 4 Sep 2010.
29. Three day "Skill based Training programme (e-Literacy)" organised by ICT Academy of Tamilnadu & University of Madras, sponsored by Emerge Learning Services Ltd. March 2010.
30. Three day "International convention of Chemists" by Indian Chemical Society, Kolkata at VIT, Vellore during Dec 2009.
31. One day IUAC acquaintance programme on Accelerator based Science Technology, VIT, Vellore, Oct 2009.
32. Workshop on "Reaching Out-Community Outreach & Extension Services for College Teachers" organised by University of Madras in collaboration with Loyola College, Chennai, Sep 2008.
33. Programme on Exposure to Excellence (Horizon-97), Regional Engineering College, Trichy, 1997.
34. UGC sponsored seminar on Recent trends in Pharmaceutical Chemistry, A.V.C. College (Autonomous) Mayiladuturai, 1997.
35. Academy discussion meeting on Frontiers in Structural Chemistry, Indian Institute of Technology, Chennai, 1996.
36. 14th National conference of Indian Council of Chemists, Institute of Science, Mumbai. 1995.
37. Seminar on Current trends in pure, applied and Pharmaceutical Chemistry, Annamalai University, Annamalai nagar, 1995

38. UGC-DRS National Seminar on new trends in dynamic and structural studies in Inorganic and Physical Chemistry, Bharathidasan University, 1995.
39. One week Advanced Training programme on Gas Chromatography" conducted by Toshniwal Instruments (Bombay) Pvt. Ltd, & Chemito Instruments Ltd., Nasik, Maharashtra, during Dec. 1995.
40. Two day Advanced Training in "Modern Thin Layer Chromatography with introduction to High performance Thin Layer Chromatography in "Application Laboratory of Anchrom Lab Supplied (I) Pvt. Ltd. (Recognised by CAMAG, Switzerland), Bombay, Dec 1995.

Refresher and Orientation Courses

1. MHRD-SWAYAM (ARPIT) Online Refresher Course in Chemistry for Higher Education Faculty, Successfully qualified in Examination conducted by NTA, New Delhi, Nov 2019.
2. Workshop on "MOOC's, E-content and Open Educational Resources" conducted by UGC-Human Resource Development Centre, Bharathiyar University, Coimbatore. (Sponsored by UGC) from **22.10.2018 to 26.10.2018**. (One week).
3. Training programme on Academic Leadership from **17.01.2018 to 23.01.2018 (One week)** at the New College, Chennai by Centre of Academic Leadership and Education Management, Aligarh Muslim University, Aligarh under the scheme of PMMMNMTT of MHRD, Govt. of India.
4. Refresher Course in Chemistry, conducted by UGC- HRDC, Bharathiyar University, Coimbatore. For 21 days (Sponsored by UGC) from **15.07.2016 to 04.08.2016**
5. Refresher Course in NANOSCIENCES - Batch I (Multidisciplinary subjects) conducted by UGC -Academic Staff College, University of Madras, Chennai (Sponsored by UGC) for 21 days from **11.11.2009 to 01.12.2009**.
6. Orientation (Intensive training) course intended for newly recruited teachers in Govt. colleges (sponsored by Tamilnadu State Council for Higher Education (TANCHE) and conducted by UGC-Academic Staff College of Madurai Kamaraj University, Madurai 28 days from **26.12.2007 to 24.01.2008**.

RERESHER/GENERAL ORIENTATION COURSE PARTICIPATED UNDER NATIONAL SERVICE SCHEME:

1. Undergone the Refresher Course conducted by the Training Orientation and Research Centre-National Service Scheme, Madras School of Social Work, Chennai from **09.08.2010 to 13.08.2010**.
2. Undergone the General Orientation Course conducted by the Training Orientation and Research Centre-National Service Scheme, Madras School of Social Work, Chennai from **08.09.2008 to 17.09.2008**.

Additional Responsibilities/ Other Academic activities

Chief Examinership in University of Madras

Examinership / QP setter in Thiruvalluvar University and various Autonomous colleges.

Controller of Examinations, from 03 February 2022 (For the period of Three years)

Nodal officer for PG and UG Online Semester Examinations, Apr 2020, Nov 2020, and Apr 2021 (Three semesters)

Additional Controller of Examinations, from 22.01.2016 to 22.01.2019 (Three years)

Prepared and submitted LOI and NAAC Self-study report for Cycle 2 assessment. 2015-2016

Member, UGC, Autonomous, IQAC and NAAC Committees, From 2013 to 2017

Acted as Judge for Science Exhibition organized by School Education Department, Government of Tamil Nadu during 2015 and 2017

Public relations Officer, PG and UG Admissions during 2015.

Programme Officer, Youth Red Cross, during June 2013 to July 2014

NCC Officer (i/c), SD wing - during Sep 2011 to Sep 2012

Programme Officer, National Service Scheme during Feb 2008 and Aug 2011.

Class Advisor/Mentor for UG 2007-2010, PG 2012-2014 and PG 2020-2022 batches

Awards

Tamil Nadu State Fellowship/University Research Studentship for Research scholars. (1995-1996)

SAIJO-Lions Club Endowment Scholarship for Research Scholars (1994-1995)

Best teacher award for producing 100% results in 2002 and 2004.
