

## CURRICULAM VITAE

### **K. RATHIKA**

24, Andal Nagar, Lakshmi Sundaram Colony,

Assistant professor,

Department of chemistry,

G.T.N Arts College,

Dindigul- 624005

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### **PROFESSIONAL EXPERIENCE**

June-2006 onwards- Assistant Professor, PG and Research Department of Chemistry, G.T.N Arts College, Dindigul-5.

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### **ACADEMIC PROFICIENCY**

Ph.D., (doing)

- Field : Bio chemistry
- Institution : Bharathiar University

M. Phil .,

- Field : Life Science,
- Institution : M.S. University-2002-2003.
- Percentage : 59%

M. Phil.,

- Field : Bio chemistry,
- Institution : Vinayaka Mission University-2007-2008.
- Percentage : 60%

**M.Sc.,**

- **Field** : Bio chemistry,
- **Institution** : V.V.V. College, Virudhunagar,
- **University** : M.K.University-2000-2002
- **Percentage** : 68%

**B.Sc.,**

- **Field** : Bio chemistry,
- **Institution** : V.P.M.M. College, Krishnan Kovil
- **University** : M.K.University-1998-2000
- **Percentage** : 67%

#### **CONFERENCES / SEMINAR / WORKSHOP**

**Publication paper** : 05

**Presented papers** : 09

**Participation papers** : 12

**Number of workshop attended** : 03

**Teaching Experience** : 14 years

#### **RESEARCH ACHIVEMENTS**

##### **Research Publication:**

- **Preliminary phyto chemical investigation of whole plant of Alysicarpus Monilifer (L) (DC)., Journal of Botanicals and Phyto chemicals 2016 chapter (3) (C.02) 132.136 Issn.no-978-93-82323-60-0.**
- **Phytochemical analysis of Alysicarpus monilifer., L.(DC) using UV, FTIR and GC-MS., CCEADI-2017, ISBN NO; 978-93-86537-88-1.**
- **Green synthesis of silver nanoparticles by using Diptheracanthus prostrates plant extract; Cauterization of the particles and study of Antibacterial activity., World journal of Pharmaceutical research Vol 7, issue 8, 2018, Issn No 2277-7105**
- **Phytochemical Screening Gc-MS analysis and Antibacterial activity of Methanolic extract of Alysicarpus monilifer L-(DC)., IJCRT , Volume 6 issue 2, April 2018, Issn No: 2320-2882.**

- **Green Synthesis Of Silver Nanoparticles By Using Alysicarpus Monilifer Plant Extract; Characterization Of The Particles And Study Of Antibacterial Activity**

**PAPERS PRESENTED INTERNATIONAL CONFERENCES CONTRIBUTED ORAL PRESENTATION:**

- 1) Presented a paper in the one day International seminar on “Recent Trends in Science and Technology its Application Organized by department of chemistry, St. Antony’s College of Arts And Sciences For Women, Thamaraipadi, Dindigul on 19<sup>th</sup> October 2022.**
- 2) Presented a paper in the National Conference on “New Horizons of nanotechnology in life sciences” Organized by department of chemistry at Sri Sai Bharath college of Arts and science, Dindigul held on 26<sup>th</sup> feb 2018.**
- 3) Presented a paper in the National Conference on Synthesis and cartelization of silver nanoparticle in Diptheracanthus prostrates organized by department of biochemistry at Rev.Jacob Memorial Christian College, Ambilikkai, held on 6<sup>th</sup> Feb 2018.**
- 4) Presented a paper in the International Seminar on Preliminary Phytochemical Screening, Diptheracanthus prostrates organized by department of chemistry at St.Antonys Arts and Science college for women (11<sup>th</sup> oct 2017).**
- 5) Presented a paper in the National Seminar on Preliminary Phytochemical Screening, GC-MS Studies of Methanolic Extract of Alysicarpus monilifer organized by department of Economics at G.T.N Arts college(13&14<sup>th</sup> july 2017).**
- 6) Presented a paper in the National Seminar on Green synthesis; Silver Nanoparticle synthesis, Cauterization study and Antibacterial activity organized by department of chemistry at St. Antonys college of Arts and Science for women(7<sup>th</sup> oct 2016).**
- 7) Presented a paper in the National Conference on Botanicals and Phytochemicals : The Challenges and promises for health care and Drug development organized by Department of Biochemistry, Rev.Jacob Memorial Christian College, Ambilikkai, held on 4<sup>th</sup> February,2016.**
- 8) Presented a paper in the UGC sponsored one day National level seminar on Recent Advances in Chemistry (RAC-2015) held organized by PG and Research Department of Chemistry, GTN Arts College Dindigul on 18<sup>th</sup> March 2015.**

9) Presented a paper in one day National Seminar on Corrosion Control and Environmental production (CHEM FEST 2015) held on 6<sup>th</sup> October 2015 organized by Department of Chemistry, SACRED HEART COLLEGE of Arts and Science Dindigul.

10) Presented a paper in the One day Conference on Chemical and Environmental Research (ICCER-2014), organized by the PG & Research Department of Chemistry, Jamal Mohammed College (Autonomous), during 11-12, March-2014.

#### **NUMBERS OF WORKSHOP/TRAINING PROGRAMMES ATTENDED:**

1. To Participated in the One day International seminar organized by Department of zoology, Kandaswami kandar's college, Vellore held on 13<sup>th</sup> Oct 2017.
2. To Participated in the International Workshop organized by V.P.M.M arts and science college for women, Krishnan kovil, held on 5<sup>th</sup> Oct 2017.
3. To Participated in the One day International seminar organized by Department of chemistry and central library, G.T.N Arts college held on 28 Feb 2017.
4. To Participated in the One day Faculty Development Programme Organized by IQAC And Central library at G.T.N Arts college held on 4<sup>th</sup> Feb 2017.
5. Lecture Workshop on "Recent Advances in Chemistry by, Department of chemistry G.T.N Arts college(8<sup>th</sup> March 2016)
6. National Seminar on "Catalyst Catalytic Reaction organized by School of Chemistry, at Madurai Kamaraj University, Madurai on 28 March 2014.
7. To attend the three days "Faculty development Programme" organized by Mannar Thirumalai Naicker College on 19<sup>th</sup>, 20<sup>th</sup> & 21<sup>th</sup> May, 2008, at Pasumalai, Madurai-625 004.
8. Inter Collegiate Seminar on Recent Trends in Bio Chemistry -COSIP by the Department of Bio Chemistry on 24.01.2001 at V.V. Vnniaperumal College for Women, Virudhunager.
9. To attend the Computer orientation Programme organized by the Department of Computer Science Form August-01 to March-02 at V.V.V anniaperumal College for Women, Virudhunager.
10. To attend the NSS Programme in the Ten days special Camping Programme on the Theme "Youth for integration And Social Harmony" organized at Pillaiyarnatham from 20-29 December 1998.

## **NUMBER OF WEBINAR AND FDP ATTENDED:**

- 1) Participated in the International webinar on empowering diversity in kamala neru mahavidyalaya Nagpur association of chemistry teacher (ACT) 16<sup>th</sup> February 2022 science GWB – 2022 Department of chemistry kalasalingam academy of research and education Kare Krishnakovil In Collaboration With International Union of pure & applied chemistry (IUPAC) Global Womens breakfast – 2022**
- 2) Participated in the National level faculty development program on the topic crafting a research paper on 5<sup>th</sup> February 2022 organised by department of management HKBK Degree College.**
- 3) Participated in the National level seven day on line faculty development program participation on quality enhancement strategies for higher education institutions organized by IQAC, Salem-16.**
- 4) Participated in 6 days for on ‘Design optimization and manufacture of materials; organized by department of mechanical engineering SSN college of engineering, Chennai from 7/3/22 to 12/03/22.**
- 5) Participated in the National Webinar On “Modern Trends In Research And Statistics” by Dr. P. Karthikeyan organized by Dept of Physical Education, GTN Arts College, Dindigul on 11.6.2021.**
- 6) Participated in three days National Online FDP on ICT Tools for effective teaching learning, from 8-10<sup>th</sup> June, 2021 organised by IQAC, Kamala Nehru Mahavidyalaya, Nagpur.**
- 7) Participated in the National Webinar on “Recent Developments For Chemistry Teachers” organized by the dept of Applied Chemistry, Karunya Deemed University, Coimbatore-641 114, TamilNadu, India on 5<sup>th</sup> June 2021.**
- 8) Participated in one day National Webinar on “ Hybrid 2D Metal-Halide Perovskite For Optoelectric Applications” organized by the Dept of Physics, AMET, Deemed University, Chennai-603 112, India, on June 7<sup>th</sup> 2021.**
- 9) Has participated in the 5 days National Level Virtual Faculty Development Program on Revised NAAC Accrediation Guidelines 2020 from 1<sup>st</sup> June 2021 to 5<sup>th</sup> June 2021.**
- 10) Participated in the National Webinar on “ Climate Smart Benefits Of Bamboo To Protect The Environment” held on 5.6.2021 organised by Guru Nanak Centre For Research(GNCR).**
- 11) Participated in the one day National Level Webinar on “ Patent Drafting Skills For Researchers And Academicians, “31<sup>st</sup> May 2021 organised by GTN Arts College.**

12) Participated in one day National webinar organised by IQ AC, A.N.S. College, Barh Patna on 4<sup>th</sup> June 2020 on the topic “Redefining The Need Of Insurance And Financial Management Amidst Covid-19”.

13) Participated in the webinar on the Elephant Catcher organised by G.T.N. Arts College, Dindigul on 3<sup>rd</sup> June 2020.

14) Attended the Chemistry Live webinar on “Nano Structural Metal Oxide And Its Hybrids For Environmental And Biological Applications” on June 4<sup>th</sup>, 2020 organised by PSNA College Of Engineering & Technology.

15) Participated in the International webinar organised by PG & Research Centre of Chemistry Jayaraj Annapackiam College for women (Autonomous), Periyakulam on 11<sup>th</sup> & 12<sup>th</sup> June 2020.

16) Participated in the National webinar on “Don’t Work, Work Out” organised by G.T.N. Group of Institutions, Dindigul on 19.06.2020.

17) Participated in the National webinar on “Yoga For Health” organised by Department of Physical Education, G.T.N. Arts College, Dindigul on 21.06.2020

18) Participated in the National Webinar on “Manage Stress Through A Strong Body” organised by Department of Physical Education, G.T.N. Arts College, Dindigul on 01.07.2020.

19) Participated in the International webinar series on “Recent Trends In Life Sciences” organised by the Department of Zoology, G.T.N. Arts College (Autonomous), Dindigul on 2<sup>nd</sup> July 2020.

20) Attended webinar on Phytoremediation Technologies: An overview conducted on July 11, 2020 organised by the PG Department Of Chemistry, A.P.C. Mahalakshmi College For Women, Thoothukudi..

21) Participated one -day National level seminar on “INTERDISCIPLINARY APPROACH FOR INNOVATION IN PLANT SCIENCE RESEARCH” held on 12 th march 2021 at, G.T.N, Arts College, Dindigul.

22) Participated one -day National level seminar on “VIRTUAL NATIONAL SEMINAR ON ELECTRODE-ELECTROLYTE INTERFACES ” held on 26 th march 2021 at, lady doak college, Madurai.

## **PROGRAMME ORGANISED:**

- ❖ Organised the International webinar on “QUALITY FOR YOUNG MINDS”. The resource person was Mr. S. Suresh Babu Subba Raju, held at G.T.N. Arts College on 26<sup>th</sup> June 2020.

## **TEACHING EXPERIENCE**

- Assistant Professor - Department of Chemistry,  
G.T.N. Arts College Dindigul-5.  
June 2007- Till Date
- Lecturer - Sri Ram Medical Lab Technology in Dindigul (2006-2007)
- Senior Analyst - Packaged drinking Water Company in Sattur.

## **TECHNICAL SKILLS**

- Western Blotting
- Southern Blotting
- All Chromatographic Methods
- All Spectrophotometric Methods

## **STRONG AREA**

- Dairy Bio-Chemistry
- Plant Bio-Chemistry
- Clinical Bio-Chemistry

## **NO.OF M.Sc., PROJECTS GUIDED;**

**20**

## **TECHNICAL EXPERTISES**

Technical Skills include operation of instruments like TLC, GLC, and UV -Visible

**Spectrophotometer.**

## **RESEARCH INTERESTS**

- **Pharmaceutical Chemistry**
- **Natural Products**
- **Analytical Chemistry**
- **Environmental Chemistry**

## **COMPUTER SKILLS**

- **DCA (MS Office)**

## **PROJECTS TO BE CARRIED OUT**

- **Waste water treatment & Management**
- **Natural Products**

## **PERSONAL PROFILE**

**Name** : K.RATHIKA

**Father's Name** : S.KANDHASAMY

**Address** : 24, Andal Nagar,  
Lakshmi Sundaram colony,  
Dindigul-5.

**Sex** : Female

**Blood group** : A<sub>1</sub>B<sup>+VE</sup>

**Nationality** : Indian

**Religion** : Hindu

**Marital Status** : Married

**Date of Birth** : 07/06/1979

**Language Known** : Tamil, English & Telugu

**E-mail ID** : rathikathiya7679@gmail.com

**Contact Number** : 9659463944



