

Mrs. K.BHARATHI M.Sc, M.Phil, B.Ed

Designation : Assistant Professor
Department : Chemistry
Subject Interest : Bio-Chemistry and Polymer Chemistry.
Specialization : Polymer Chemistry

DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE (SPECIFYING PERIOD)

Assistant Professor

Institute : Poompuhar College (Autonomous)
Period : 06.01.2009 to till date
Teaching Area : Chemistry (All Subjects in UG Level)

ACADEMIC PROFILE

Ph.D.,

University : (Submitted) Manonmaniam Sundaranar University
Date and Place : February 2018. Tirunelveli.
Research Supervisor : Dr. P.Pazhanisamy

Title of Thesis : Synthesis, characterization and applications of some N-substituted acrylamide based zinc oxide nanocomposite hydrogels.

M.Phil.,

University : Bharathidasan University, Tiruchirapalli
Main Subject : Chemistry
Year : December 2001.
Marks : 351/500
Supervisor : Dr. T.K.Krishnamoorthy
Title of Dissertation : Cathodic reduction of Oximes

B.Ed

University : Periyar University, Salem
College : Sri Saradha College of Education, Salem.
Main Subject : Physical science
Year : 2000
Marks : Theory- Cumulative Weight average % = 67.55
Practical- Cumulative Weight average % =68.44

PG

University : Bharathidasan University, Tiruchirapalli
College : Raja Serfoji Govt. College, Thanjavur.
Main Subject : Chemistry.
Year : 1998
Marks : 971/1500

UG

University : Bharathidasan University, Tiruchirapalli
College : Poompuhar College, Melaiyur.
Main Subject : Chemistry.
Year : 1996
Marks : 1702/2300

H.Sc.,

Board : State board of Tamil Nadu.
Main Subject : Science
Year : 1993
Marks : 983/1200

S.S.L.C

Board	: State board of Tamil Nadu.
Main Subject	: -
Year	: 1991
Marks	: 375/500

RESEARCH PROJECTS - NIL

WORKSHOPS ORGANIZED - NIL

RESEARCH GUIDANCE - NIL

AWARDS AND DISTINCTION- NIL

PUBLICATIONS - ARTICLES PUBLISHED IN JOURNALS

Research articles published

1. **K. Bharathi**, P.Pazhanisamy Synthesis and Characterization of Poly(*N*-tert-amyl acrylamide-co-acrylamide/2-Acrylamido-2-methylpropane sulphonic Acid Sodium Salt) Zinc Oxide Nanocomposite Hydrogels. *Chemical Science Transactions*, **7(2)** , (2018)
2. M. Sundrarajan , S. Ambika , **K. Bharathi**, Plant-extract mediated synthesis of ZnO nanoparticles using *Pongamia pinnata* and their activity against pathogenic bacteria, *Advanced Powder Technology*, 26 (2015) 1294–1299.
3. K.Bama, M. Sundrarajan and **K. Bharathi**, Enhance antibacterial activity and low band gap energy of ZnO/PC nano composite material, *International Conference on Frontier Areas in Chemical Technologies-2016 (FACTs-2016)*, organized by Department of Industrial Chemistry, Nanoscience & Technology and Bioelectronics & Biosensor, Alagappa University, Karaikudi during 21st to 23rd March, 2016 ISBN: 978-81-928690-7-0.

4. M.Sundrarajan, S.Jegatheeswaran, S. Selvam, R.Gowri, M.Balaji, **K.Bharathi** ,Green approach of ionic liquid assisted synthesis of nanocrystalline ZnO in phyto medium and their antibacterial investigation. Material letters, 201 (2017),31-34.

RESEARCH PAPERS ACCEPTED FOR PUBLICATION AND UNDER REVIEW

Research article accepted

1. K.Bharathi and P.Pazhanisamy, Synthesis, characterization, swelling behavior and antimicrobial activities of poly (N-cyclohexylacrylamide-co- acrylamide-co-2-acrylamido-2-methylpropane sulphonic acid sodium salt) Zinc oxide nanocomposite hydrogels, accepted for publication in RASĀYAN Journal of Chemistry.

POSTERS AND PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL LEVEL

1. *Research paper presentation:*

Participated and presented a paper titled “ SYNTHESIS AND CHARACTERIZATION OF POLY(N-TERT-AMYL ACRYLAMIDE-CO-ACRYLAMIDE/2-ACRYLAMIDO-2-METHYLPROPANE SULPHONIC ACID SODIUM SALT) ZINC OXIDE NANOCOMPOSITE HYDROGELS” in the National conference on Recent Trends in Science and Green Communication (NCRTSGC – 2016) organized by Department of Science and Humanities on December 2016. Organized by King’s college of engineering, Thanjavur.

2.

BOOKS PUBLISHED- NIL

CITATION INDICES DETAILS (REFER GOOGLE SCHOLAR FROM 2007-2015)

Publications	: 4
In Journals	: 4
In Conferences	: 1

MEMBERSHIP IN BODIES ON EDUCATION AND NATIONAL DEVELOPMENT

1. Life Member of Association of Chemistry Teachers(ACT)

POSITION HELD / LEADERSHIP ROLE PLAYED

1. NSS Programme Officer from August 2015 to August 2018.
2. Member, Board of studies in chemistry on April 2011.
3. Member, College Magazine committee in the year of 2011.
4. Member, Women cell in the year of 2012.
5. Polling Officer I, Local body election in 2011.
6. Presiding Officer, Indian general election 2014.

INVITED GUEST LECTURES- NIL

TRAINING PROGRAMME

1. Orientation Course (UGC Sponsored)

Place : Bharathiar University, Coimbatore

Duration : From 07.05.2010 to 03.06.2010.

1. Refresher Course in Chemistry (UGC Sponsored)

Place : University of Madras, Chennai

Duration : From 11.08.2011 to 31.08.2011

2. Refresher Course in Life Sciences(ID) (UGC Sponsored)

Place : Bharathiar University, Coimbatore

Duration : From 05.07.2017 to 25.07.2017

3. Refresher Course in Chemistry (UGC Sponsored)

Place : University of Madras, Chennai

Duration : From 23-08-2018 to 12-09-2018

4. Participated in a orientation programme for college teachers sponsored by UGC, organized by poompuhar college (Autonomous), Melaiyur on August 29, 2013 to August 30, 2013.

5. Participated in a orientation programme for college teachers sponsored by UGC, organized by poompuhar college (Autonomous), Melaiyur on March 10, 12 & 13 2015.

TEACHING EXPERIENCE FROM 1993 TO TILL DATE

Total Teaching Experience : 9 years, 8 Months

Under Graduate : 9 years, 8 Months

Post Graduate : 9 years, 8 Months

PERSONAL DETAILS

Name : Bharathi.K

Gender : Female

Date of Birth : 02-06-1976

Age : 42
Place of Birth : Melaiyur
Marital Status : Married

Residential Address : 51/31, Puliyan Street Lane, Mayiladuthurai -609001

Official Address : Department of Chemistry,
Poompuhar College(Autonomous),
Melaiyur -609107

Email : bharathimelaiyur@gmail.com

Any other Information :

Participation in seminars/conferences/workshops

1. Participated in a inter-collegiate seminar on "Women and Legal Rights and Gender Studies" Organised by ARC Viswanathan College, Mayiladuthurai on 05.03.2010
2. Participated in UGC,CSIR & DST Sponsored National Seminar on "New Frontiers in Chemistry" Organised by the Department of Chemistry, Annamalai University, Chidambaram during 15-16 March, 2010.
3. Participated in a UGC Sponsored workshop on "Molecular Biological Tools and Techniques" Jointly organised by R&D Cell of AVC College (Autonomous), Mannampandal and Department of Microbiology, Bharathidasan University, Trichy on 29.01.2011.
4. Participated in a National Conference on "Recent Trends in Organic Synthesis - 2011" Organised by School of Chemistry, Bharathidasan University, Tiruchirappalli during 24-26 February, 2011.
5. Participated in a workshop on "Question paper setting" organised by IQAC of Sri Parasakthi College for Women, Courtallam on 28.02.2011.

6. Participated in a Chemical Research Society of India, Bengaluru Sponsored Meet organised by Department of Chemistry, AVC College (Autonomous), Mannampandal on 15.10.2011.
7. Participated in the NATIONAL SEMINAR on "CHEMISTRY EDUCATION AND CONVENTION OF CHEMISTRY TEACHERS (NCCT-13)" organized jointly by the department chemistry, Annamalai University and Association of Chemistry Teachers(ACT) during November 8,2013 to November 10,2013.
8. Participated in a Workshop on Green micro scale Techniques in chemistry Experiments and fabrication of glasswares by gas blowing techniques sponsored by UGC, organised by Department of Chemistry, Poempuhar College (Autonomous), Melaiyur on 29 December , 2014.
9. Participated in a Workshop on SPSS (Hands on Training) organized by PG & Research Department of Zoology, Poempuhar College(Autonomous) Melaiyur on March29&30,2014.
10. Participated in a Workshop on micro scale experiments in chemistry sponsored by UGC, organised by Department of Chemistry, AVC College (Autonomous), Mannampandal on October 7 , 2014.
11. Participated in a National seminar on UGC,DST-SERB AND ACT sponsored New Trends in Chemistry (NTC-2016) organized by department chemistry, Annamalai University Annamalai nagar, on 21 & 22,October 2016.
12. Participated in International conference on " Frontier Area in Chemical Technologies-2016" (FACTs-2016) organized by the Departments of Industrial Chemistry, Bioelectrotronics & Biosensors and Nanoscience & technology, Alagappa University,Karaikudi on 21 March 2016.