

## FACULTY PROFILE



Dr. E. Radha presently works as Assistant Professor in the Department of Chemistry at Auxilium College (Autonomous), Vellore. She has 14 years of teaching experience. She has obtained her Ph.D in the year 2020 from DKM College for Women (Autonomous), Vellore. She has presented papers in national and international seminar and conferences. She has published papers in various journals and conference. Her research interests include Wastewater Treatment using Biodegradable Materials.

1. Name : Dr. E. Radha
2. Designation : Assistant Professor
3. Qualification : M.Sc, M.Phil, Ph.D.
4. Mobile number : 9965067547
5. E-mail id : radhae@auxiliumcollege.edu.in
6. Teaching Experience :14 years
7. Area of specialization : Analytical Chemistry
8. Positions Held in Auxilium:
  - In charge of department industrial visit (2021 - 2022)
  - In charge of department CHRYSL articles (2021-2022)
  - In charge of department photo album and paper cutting from 2020 onwards
  - In charge of department audio video aids (2022-2023)
  - In charge of department Instrument: Infra - Red Spectrophotometer (2020 - 2021)
  - In charge of department Instrument: Cyclic Voltammetry (2021 onwards)
  - In charge of department IQAC work from 2020 onwards
9. Research Experience and Guidance: NIL
10. Projects Completed / Ongoing: NIL

11. No. of Papers Published: 5

12. No. of Papers Presented in the National/International/Seminars/Workshops/Conferences: 7

13. No. of Seminars/Workshops/Conferences organized: NIL

14. No. of Books Published/Edited/Co-edited: NIL

15. Membership in professional bodies: NIL

16. Other bodies: NIL

17. Honours & awards received:

- **BEST POSTER PRESENTATION AWARD** in the 26th National symposium in chemistry, 14th RSC-CRSI joint Symposium and 26<sup>th</sup> CRSI National Symposium in Chemistry organized by Department of Chemistry, School of Advanced Sciences, VIT, Vellore, India, **CRSI and Royal Society of Chemistry, Uk** during 6-9 February 2020.
- **BEST POSTER PRESENTATION AWARD** in the **International Conference** on 'Chemical Sciences and Nanomaterials' organised by Department of Chemistry, School of Advanced Sciences, VIT, Vellore on 7-9 March 2019.
- **SECOND PRIZE FOR PAPER PRESENTATION** in the **VI National Conference** on Emerging Trends in Chemical and Biological Sciences organized by the PG and Research Department of Chemistry, DKM College for Women, Vellore on 6<sup>th</sup> December 2019.
- **FIRST PRIZE FOR POSTER PRESENTATION** in the **National seminar** on Insight on Renewable sources of Energy organised by PG and Research Department of Chemistry, Voorhees College, Vellore on 25<sup>th</sup> January 2018.
- **SECOND PRIZE FOR POSTER PRESENTATION** in the **IV National Conference** on Emerging Trends in Chemical and Biological Sciences organised by the PG and Research Department of Chemistry, DKM College for Women, Vellore on 5<sup>th</sup> January 2018.

18. No. of Online Courses completed (Minimum of 4 Weeks): NIL

19. Any Other:

**TRAINING PROGRAMME:**

1. Effectively completed two days **training programme** on ‘Personal and Professional Excellence’ organized by Centre for Training in Culture and Creativity, Chennai held on 25-26 August 2007 at K.M.G College, Guidiyattam.

2. Successfully completed One Week Online Short Term Training Programme on ‘ Smart Materials, Automation and its Future Impact on Humans(Part-2) SAFIH2020’ organized by Department of Mechanical Engineering, Sree Buddha College of Engineering, Alappuzha, Kerala on 16<sup>th</sup> to 21<sup>st</sup> November 2020.

**BOOK CHAPTER:**

1. Gomathi Thandapani, **E Radha**, J Jayashri, JAK Florence, PN Sudha, (2018). Bioactive metallic surfaces for bone tissue engineering, Fundamental Biomaterials: Metals, 79-110.
2. Parappurathi N. Sudha, Kirubanandam Sangeetha, Arumugam V. Jisha Kumari, **Ethirajulu Radha**, Narayanan Vanisri, Soundarajan Aisverya, Sukumaran Anil (2018). In vivo biocompatibility studies: Perspectives on evaluation of biomedical polymer biocompatibility, Fundamental biomaterials: Polymers, 217-247.
3. K. Sangeetha, A. V. Jisha Kumari, **E. Radha**, P. N. Sudha(2019). Pharmaceutical Application of Collagens, in book Natural Polymers for Pharmaceutical Applications, 32 pages.

**VIDEO LECTURE:**

1. A video lecture was uploaded on the topic “Structure Activity Relationship of Morphine ” in the Auxilium college chemistry department’s YouTube channel in the following link <https://youtu.be/34qitG9hq7Y>
2. A video lecture was uploaded on the topic “Preparation, Properties and Uses of Naphthalene ” in the Auxilium college chemistry department’s YouTube channel in the following link <https://youtu.be/J6UZS-6QKJW>

**PUBLICATIONS:**

1. **E. Radha** and P. N. Sudha (2018). Synthesis and Characterization of Glutaraldehyde Crosslinked Chitosan Oligosaccharide-Graftglycidylmethacrylate/Poly Propylene Glycol Blend. World Journal of Pharmaceutical Research, 7(4), ISSN 2277– 7105.
2. **E. Radha** and P. N. Sudha (2018). Modification and Characterization of Chitosan Oligosaccharide. International Journal of Pharmacy and Biological Sciences, 8(4), 90-95, ISSN: 2230-7605 (Online).

3. **E. Radha** and P. N. Sudha (2019). Removal of Lead (II) Ions from Aqueous Solution onto Chitosan Oligosaccharide-G- Glycidylmethacrylate / Polypropylene Glycol-Glutaraldehyde Blend. International Journal of Pharmacy and Biological Sciences, 9(2), 314-320.
4. **E.Radha**, T.Gomathi, P.N.Sudha and S. Sashikala(2020). Cadmium (II) ion removal from aqueous solution using Chitosan Oligosaccharide based blend. Polymer Bulletin, 78(1) DOI:[10.1007/s00289-020-03136-0](https://doi.org/10.1007/s00289-020-03136-0).
5. **E. Radha**, T. Gomathi, P.N. Sudha, Srinivasan Latha, Ayman. A.Ghfar, Nazia Hossain (2021). Adsorption studies on removal of Pb(II) and Cd(II) ions using chitosan derived copolymer blend. Biomass conversion and Biorefinery. <https://doi.org/10.1007/s13399-021-01918-8>.

### **Papers presented in Seminar / Symposia / Conference:**

1. 'Adsorption studies on the removal of the heavy metal from aqueous solution using Chitosan oligosaccharide based blend' in the V National Conference on Emerging Trends in Chemical and Biological Sciences organized by the PG and Research Department of Chemistry, DKM College for Women, Vellore on 4<sup>th</sup> January 2019.
2. 'Equilibrium and Kinetic Study of lead ion on COS-g-GMA/PPG/Bent-Glu blend' in the 4th International Conference on Emerging Trends in Multidisciplinary Research organized by the Arunai International Research Foundation and Shanmuga Industries Arts and Science college, Tiruvannamalai on 23 and 24<sup>th</sup> February 2019.
3. 'Lead adsorption on COS-g-GMA/PPG/Bent-Glu ternary blend' in the Two days **International Conference** on Innovations in 3N Nutraceutical, Nuclear Medicine and Neurocognition organized by the Department of Foods & Nutrition, Biochemistry and Chemistry, Islamiah women's Arts and Science college, Vaniyambadi on 7 and 8<sup>th</sup> February 2018.
4. National Conference on Emerging Trends and Future Challenges in Chemical Sciences organized by the PG and Research Department of Chemistry, DKM College for Women, Vellore on 12<sup>th</sup> October 2018.
5. 'Novel Sorbent from Low Cost Materials for Heavy metal treatment' in the National Conference on Recent Advancements in Materials Science organized by PG and Research Department of Physics & Chemistry, Government Arts College, Tiruvannamalai on 25 & 26<sup>th</sup> July 2017.

6. 'Comparative studies on the antibacterial activity of nanochitosan/sodium alginate/microcrystalline cellulose bead with film' in the National Conference on New Trends in Biomedical and Pharmaceutical Application of Marine Natural Products organized by Centre for Ocean Research, Sathyabama University, Chennai on 10 & 11th August 2016.
7. 'Application of Green Chemistry' in the National Conference on Energy and Environment organised by Department of Chemistry, D.K.M. College for Women, Vellore on 17th February 2007.

### **Poster presented in Seminar / Symposia / Conference:**

1. 'Comparative of lead and cadmium by using COS-g-GMA/PPG/Bent ternary blend' in the **International Conference** on Advances in Environmental and Health Sciences organised by PG and Research Department of Zoology, DKM College for Women, Vellore on 3&4th March 2020.
2. Comparative study of antimicrobial activity of COS and binary blend (COS-g-GMA/PPG) in the **International Conference** Current Trends and Emerging Challenges in Biological Sciences organised by Department of Life Sciences, DKM Colleges for Women, Vellore on 15 & 16<sup>th</sup> February 2018.
3. 'Equilibrium study of lead and cadmium heavy metals by using binary blend (COS-g-GMA/PPG)' in the **Third International Conference** on Nanomaterials: Synthesis, Characterization and Applications organised by International and Inter University Centre for Nanoscience and Nanotechnology, Kottayam & Gdansk University of Technology, Chemical Faculty Department of Polymer Technology, Gdansk, Poland & Beijing University of Chemical Technology, Bei San Huan East Road 15#, Chaoyang District, Beijing, China on Mahatma Gandhi University, Kottayam, **Kerala**, India during 11-13<sup>th</sup> May 2018.
4. 'Industrial Pollution' in the One Day State Level Seminar On Challenges In Green And Environmental Chemistry organized by PG and Research Department of Chemistry, C. Abdul Hakeem College, Melvisharam, Vellore on 15<sup>th</sup> February 2017.
5. 'Synthesis and characterisation of COS-g-GMA/PPG binary blend' in the National Level Seminar on Frontiers in Medicinal Chemistry organised by PG and Research Department of Chemistry, Voorhees College, Vellore on 27<sup>th</sup> February 2017.

6. Preparation and Characterisation modified chitosan oligosaccharide blend in the III National Conference on Recent trends in Chemical and Biological Sciences organised by the PG and Research Department of Chemistry, DKM College for Women, Vellore on 2<sup>nd</sup> March 2017.
7. 'Heavy Metal Removal Using Low Cost Natural Adsorbent' in the One Day Seminar On Environment And Sustainable Development organised by the Department Of Chemistry, SRM University in association with IRD India on 3<sup>rd</sup> June 2016.

### **Seminar / Symposia / Conference / Workshop Attended:**

1. National Level Colloquium on 'Current Forum in Microbiology MIC-BIO windhover – 2K7' conducted by Department of Microbiology, DKM College for Women, Vellore on 31<sup>st</sup> January and 1<sup>st</sup> February 2007.
2. III Annual National Symposium on Cancer Today – 07 organized by Inter Society of Biochemistry and Nutrition, DKM College for Women, Vellore on 19<sup>th</sup> February 2007.
3. IV State Level Seminar on 'Trends in Bio-Science' organized by PG Department of Biochemistry and Microbiology, K.M.G. College, Gudiyattam on 5<sup>th</sup> March 2008.
4. National Conference on Interplay of Biological and Chemical Sciences' organized by Department of Zoology, Thiruvalluvar University, Vellore on 6-8<sup>th</sup> January 2010.
5. Conference on 'Hot Topic in Chemistry' conducted by PG Department of Chemistry, K.M.G. College, Gudiyattam on 9<sup>th</sup> October 2010.
6. National Level Workshop on 'Interpretation of Test Scores' held on 3<sup>rd</sup> August 2012 at K.M.G. College, Gudiyattam.
7. State Level Seminar on 'Recent Trends in the Field of Chemistry' on 22<sup>nd</sup> September 2012 at D.K.M College, Vellore.
8. State Level Seminar on 'Recent Advancements in Chemistry' organized by Department of Chemistry, Don Bosco College of Art and Science, Dharmapuri on 28<sup>th</sup> September 2012.
9. Science Academies Lecture Workshop on "Materials Physics and Chemistry" conducted by Department of Physics in collaboration and sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and National Academy of Sciences, Allahabad on 9<sup>th</sup> and 10<sup>th</sup> March 2018 at D.K.M College for Women, Vellore.
10. One day workshop on 'Computational analysis of Small Molecules & Molecular Docking' in collaboration with School of Biosciences and Technology, VIT, Vellore organized by Department of Biosciences and DKM College for Women, Vellore on 7<sup>th</sup> February 2019.

11. 'UGC Autonomous funded International Conference on New Dimensions of Materials Chemistry' organised by PG & Research Department of Chemistry, Islamiah College, Vaniyambadi held on 5<sup>th</sup> January 2020.

### **Orientation, Refresher Programmes and FDP Attended:**

1. National level Intercollegiate Online Faculty Development Programme on Outcome based Education organized by the Internal Quality Assurance Cell of Auxilium College, Vellore in association with IPSR solution limited from 22.11.2021 to 27.11.2021.
2. 5 - day Online Faculty Development Programme on 'Green Technologies towards Sustainable Future' jointly organized by Department of Chemical Engineering, GMR Institute of Technology, Rajam, Srikakulam, Andhra Pradesh and National Institute of Technology, Warangal, Telangana, India. 08.03.2022 to 12.02.2022.
3. A Two Week Online Faculty Development Programme and Training on " LibreOffice Suite Writer, Calc & Impress" conducted by Spoken Tutorial IIT Bombay from 26.05.2022 - 10.06.2022.
4. 5- day Online Faculty Development Programme on 'Sustainable Nanotechnologies' jointly organized by Department of Chemical Engineering, GMR Institute of Technology, Rajam, Srikakulam, Andhra Pradesh and National Institute of Technology, Warangal, Telangana, India. 11.10.2022 to 15.10.2022.