



Name : Dr. Umamaheswari. R

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

Designation :Assistant Professor

Years of Experience: UG: 2.5 years PG: 2.5 years

Previous Experience: UG:1 year 3 months PG: Nil

**Area of Specialization: Physical Chemistry, Polymer Chemistry,
Nano Chemistry**

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MEMBERSHIP

S.No.	Details	State/National/International
1.	Annual membership for DK International Research Foundation, Trichy for the period of June 2020 – June 2021	International
2.	Member of Editorial Board Team for DKIRF Journals (11 Journals) for the period of June 2020- June 2021	International
3.	Annual membership certificate for International American Council for Research and Development, USA for the period of June 2020- June 2021	International

WORKSHOPS

S.no.	Organized by	State/National/International	Topic	Date(s)
1.	Hindusthan College of Arts and Science, Coimbatore & IIT Bombay	National	Moodle Learning Management System	10-16, June 2020
2.	Hindusthan College of Arts and Science, Coimbatore	National	Research Methodology and ICT Based Teaching & Learning Tools	16-20, June 2020
3.	Bajaj College of Science, Wardha	National	IPR & Innovations	19, Dec 2020
4.	Hindusthan College of Arts and Science, Coimbatore	National	Learning Management System	1-8, July 2020
5.	Ethiraj College for Women & Indian Science Congress Association	International	Nanomaterials for clean energy and space astronomy	22 & 23, February 2022

CONFERENCES ATTENDED / PRESENTED PAPER

S.no.	Organized by	State/National/ International	Participated /Presented	Title	Date(s)
1.	Anna adarsh college for women	International	Presented	*Green Synthesis, Characterisation of Copper Nanoparticles derived from <i>Hibiscus rosa-sinensis</i> leaf extract and their antimicrobial activities <i>International Conference on Green Chemistry for a Greener planet</i>	12/09/2018
2.	Stella Maris College in collaboration with DST Thematic Unit of Excellence, IIT Madras	International	Presented	<i>In-vitro</i> Cytotoxicity and wound healing potential of green synthesised Copper Nanoparticles Loaded Microsponges <i>International Conference on Recent Advances in Nanoscience and Nanotechnology (ICRAN'19)</i>	11/12/2019 to 12/12/2019
3.	Madras Christian College	National	Presented	<i>In-vitro</i> Cytotoxicity and Wound Healing Potential of Honey Loaded Microsponges <i>National Conference on Recent Advances in Nanomaterials Chemistry for Sustainable Development (RANCSD)</i>	12/12/2019 to 13/12/2019
4.	Department of Physical Chemistry, University of Madras	International	Presented	Design and Fabrication of hydrogel incorporated with copper nanoparticles loaded microsphere for antimicrobial and antioxidant activity <i>International Conference on Advances in Chemistry with specific reference to Catalysis, Sensors,</i>	9/01/2020 to 10/01/2020

				<i>Drug Delivery and Energy Materials ICACSEM-2020</i>	
5.	Ethiraj college for women-	International	Presented	An historical overview on the use of pharmaceuticals from folk medicine towards the ultimate magic root of health benefit <i>International Multi-disciplinary conference on Biosphere Conservation- Emerging vistas in Science, Economics and in Tamil Literature (BEST - 2020)</i>	17/02/2020 to 18/02/2020
6.	DK International Research Foundation	International	Presented	An Overview of Microsponge as drug delivery system <i>4th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology (IWCETASET – 2020)</i>	28/06/2020
7.	DK International Research Foundation	International	Presented	Development of Honey Microsponge Loaded Hydrogel for a Promising Antimicrobial Activity 4 th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology (IWCETASET – 2020)	28/06/2020
8.	St. Peter's Institute for Higher Education & Research	International	Participated	-	11-12, Nov 2020
9.	H.N.B. Govt. P.G. College, Uttarkhand	International	participated	-	5-6, July 2020

10.	Sri Vasavi College	International	participated	-	11-12, June 2020
11.	Hidusthan College of Arts and Science, Coimbatore	International	participated	-	15-19, June 2020
12.	VIT & Swansea University, UK	International	participated	-	1-3, July 2020
13.	Karunya Deemed University	International	participated	-	25-30, May 2020
14.	Sathyabama Deemed University	International	participated	-	1-2, June 2020

SEMINARS

S.no.	Organized by	State/national/international	Topic	Date(s)
	Anna adarsh college for women	National	Design, development and characterisation of copper nanoparticles loaded microsponges* <i>National Seminar on Nanotechnology -the fascinating world of science, NSNT-2019</i>	2019

CERTIFICATE COURSES /VALUE ADDED COURSES

S.no.	Offered by	Topic	Duration
1.	IIT Roorkee- NPTEL online certification funded by the MHRD, Govt. of India.	Biomedical Nanotechnology (FDP COURSE)	Aug - Sep 2019 Completed with Elite
2.	IIT Kharagpur- NPTEL online certification funded by the MHRD, Govt. of India.	Laws of Thermodynamics	Jan- Feb 2020 Completed by Sep 2020
3.	NITTR, Bhopal- NPTEL online certification funded by the MHRD, Govt. of India.	ICT in teaching & learning (FDP MOOC Course)	July- Aug 2020 Completed (march 2021) with Elite - Silver medal
4.	Arignar Anna Govt. College, Cheyyar	Two Day Online Course on Recalling the Foundations and Frontiers of Thermodynamics	3 rd & 4 th June 2020
5.	Indian Academic Researchers Association, Trichy	Three Day Online Course on	7 th To 9 th May 2020.

		Biomedical Nanotechnology	
6.	Jamal Mohammed college	Five day National level online course on Chemistry in our day to day life	4 th to 8 th June 2020
7.	NKT National college of education	Online National Value added course on Environment Sustainability	4 th to 8 th August 2020

JOURNAL PUBLICATIONS

S.NO	JOURNAL NAME	UGC /SCI/SCIE /WOS	ISBN / ISSN NUMBER	REFERENCE	DATE OF PUBLICATION/ DOI
1.	Journal of Chemistry and Chemical Sciences		ISSN 2229-760X (Print) ISSN 2319-7625 (Online)	Green Synthesis, Characterization of Copper Nanoparticles Derived from <i>Ocimum Sanctum</i> Leaf Extract and their Antimicrobial Activities	July 2018 http://dx.doi.org/10.29055/jccs/670
2.	International Journal of Engineering Sciences & Research Technology	(Indexed in Thomson Reuters)	ISSN: 2277-9655	Studies on Antimicrobial and Antioxidant Activity of Honey	Aug2018 https://doi.org/10.5281/zenodo.1403377
3.	International Journal of Green and Herbal Chemistry	UGC APPROVED – 43786 (Journal No) till 16.6.2019, Indexed in publons(web of science)	E-ISSN: 2278-3229	Evaluation of Antimicrobial and Antioxidant Activity of Green Synthesized Copper Nanoparticles from the Leaf Extract of <i>Hibiscus Rosa-Sinensis</i>	Oct 2018 10.24214/IJGHC/GC/7/4/83442
4.	International Journal of Pharmacy and Biological Sciences	UGC APPROVED – 46322 (Journal No)till 16.6.2019	ISSN: 2321-3272 (print) ISSN: 2230-7605 (online)	Antioxidant activity of Copper nanoparticles synthesised from the Leaf Extract of <i>Ocimum Sanctum</i>	Oct 2018 https://www.researchgate.net/publication/336640180_ANTIOXIDANT_ACTIVITY_OF_COPPER_NANOPARTICLES_SYNTHES

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5.	Journal of Drug Delivery and Therapeutics	UGC Care List Group D UGC S.N.- 13370, Journal Number- 45744	ISSN: 2250- 1177	Fabrication and Characterisation of Honey Loaded Microsponges	July 2019 https://doi.org/10.22270/jddt.v9i4.3125
6.	International Journal of Pharmaceutical Sciences and Drug Research	UGC Care List Group D	ISSN:0975- 248X	Formulation and Evaluation of Copper Nanoparticles Loaded Microsponges	July 2019 https://doi.org/10.25004/IJPSDR.2019.110407
7.	Research Journal of Pharmacy and Technology	UGC - Scopus indexed	ISSN 0974-360X (Online) 0974-3618 (Print)	Effectiveness of copper nanoparticles loaded microsponges on drug release study, cytotoxicity and wound healing activity	Sep 2020 10.5958/0974- 360X.2020.0077 0.2
8.	International Journal of Chemical Technology	UGC- Scopus indexed	1996 3416	Design and Fabrication of Hydrogel incorporated with copper nanoparticles loaded microspoon for antimicrobial and antioxidant activity	Sep 2021 http://nopr.niscair.res.in/handle/123456789/58675

FDP/STTP

S.no.	Organized by	State/National/International	Topic	Date(s)
1.	SRMIST, Ramapuram, Chennai	National	Assessment Tools	27-28, Jan 2021
2.	DG Vaishnav College, Chennai & IQAC	National	ICT Competency for Higher Education Teachers	13-15, July 2020

3.	Hindusthan College of Arts and Science, Coimbatore	International	Digital Tools for Researchers and ICT Online Tools in Teaching	20-24, July 2020
4.	A.P.C. Mahalaxmi College for Women, Thoothukudi	National	Innovation and Intellectual Property Rights	6, July 2020
5.	Annamalai University	International	The Role of Edutech in Classroom Teaching & Learning	5-11, June 2020
6.	DG Vaishnav College, Chennai & IQAC	National	ICT Tools for Effective Assessment - Formative and Summative	17-18, Sep 2020
7.	Hindusthan College of Arts and Science, Coimbatore	National	Learning Management System & E-Content Development Tools	1-8, July 2020
8.	Hindusthan College of Arts and Science, Coimbatore & IIT Bombay	National	Moodle Learning Management System	10-16, June 2020
9.	St.Joseph's Institute of Technology	National	E-Content Development	16. June 2020
10.	Hindusthan College of Arts and Science, Coimbatore	National	Research Methodology and ICT Based Teaching & Learning Tools	16-20, June 2020
11.	Hindusthan College of Arts and Science, Coimbatore & Bharathiar University	International	E-Governance During Pandemic: Transformation in Higher Education	24, Oct 2020
12.	Hindusthan College of Arts and Science, Coimbatore & Bharathiar University	International	E-Governance Culture: Transformation in Higher Education Stakeholders	26, June 2020
13.	Ethiraj College for Women	National	Open Source Learning: Moodle	24, June 2020
14.	Karpagam College of Engineering	International	Emerging Trends in Information Technology	23-27, June 2020
15.	Dr. MGR Educational	National	Accounting Profession: Path For Success- Learn-Adapt- Accelerate	22-26, June 2020

	and Research Institute			
16.	G.H. Raison University, Amravati(Mh)	National	Outcome Based Education	8-9, June 2020
17.	Hindusthan College of Arts and Science, Coimbatore	National	Moodle Learning Management System	10, June 2020
18.	Hindusthan College of Arts and Science, Coimbatore	National	Metacognitive Strategies: Constructive Teaching...	7, June 2020
19.	AMET University	International	Research Methodology and ICT Based Teaching & Learning Tools	12, June 2020
20.	Hindusthan College of Arts and Science, Coimbatore	National	ICT Based Teaching and Learning Tools	1-5, June 2020
21.	Nadar Saraswathi College, Theni	National	Lesson Plan In Digital Mode	28, May 2020
22.	Dr. MGR Educational and Research Institute	National	E- Content Development using Open Source tools	27-29, May 2020
23.	St.Mary's College & IQAC, Thoothukudi	International	Invisible Scholars: Students with Learning Disabilities & Identification of Students with Learning Disabilities	2, June 2020
24.	Intellectual Property office	National	National Intellectual Property awareness mission	11, Jan 2022
25.	Vivekananda College	National	Needs and metrics of Green Chemistry	31, Mar 2022

WEBINARS [National/International]

S.no.	Organized by	State/National/International	Topic	Date(s)
1	Vels Vistas	International	Whole Brain Thinking & Learning	16-18 Jun 2020
2	Dr. Ambedkar Govt. Arts College	International	Medicinal Chemistry	05-Jun-2020
3	Mangalore University	International	Nutrition and Health	28-Oct-2020
4	The American College	International	International Webinar on Chemistry	29-May-2020
5	Hindustan College of Arts and Science	International	Current Scenario of Work Management & ICT Tools For Teaching And Learning Process	9-15 July 2020

6	Tamil Nadu Teachers Education University	International	Turn the Challenges To Opportunity: Covid-19 Pandemic	05-Jun-20
7	Government Of Tamilnadu, Institute of Advanced Study In Education	International	Psycho-Social & Experiential Dimensions of Teaching-Learning	30th July-1st Aug 2020
8	Ethiraj College For Women	National	Patenting Inventions in India	16.05.2020
9	Loyola College	National	Taking Research Forward During the Pandemic	20.05.2020
10	Mahalashmi Women's College of Arts & Science	National	Strategies to Enhance Vocabulary Skills	29.05.2020
11	TNTEU, Chennai And Mangayarkarasi College of Education	National	Enhancing Digital Skills of Student Teachers For Better Jobs	29.05.2020
12	NKT Literary Club	National	E - Assessment Using G - Form	03.06.2020
13	Sankara College of Arts & Science	National	Intellectual Property Rights	02.06.2020
14	Dr.M.G.R. Educational and Research Institute	National	The Gateway of Learning Techniques	4- 6 June 2020
15	Meston College of Education	National	Creating A Safer, Cleaner and Healthier Post Pandemic World Towards Career Success	10.06.2020
16	N.K.T. National College of Education For Women	National	Effective Engagement of Teaching And Learning Through Online	01.06.2020
17	Department of Chemistry, School of Arts and Science, AV Campus, VMRF, Paiyanoor,	National	Solid Waste Management	05.06.2020
18	Annai Hajira Women's College, Melapalayam	National	Research Methodology	01.07.2020
19	N.K.T. National College of	National	Computer Vision Syndrome	01.07.2020

	Education For Women			
20	Stella Maris College in Collaboration With The Department Of Chemistry, IIT Madras	National	Molecular Architecture and Landscape Through Spectroscopy: Introductory Lectures	04 June To 06 June 2020
21	Loyola College	National	Research Methodology	12-13 June 2020
22	N.K.T. National College of Education For Women	National	Empowering Women Through Physical Fitness	22.06.2020
23	Nazareth College of Education For Women	National	National Webinar on "Health Vs Biomechanics at Home Kitchen"	17.06.2020
24	St. Joseph College of Engineering	National	Computational Chemistry on Bio-Fuel Development	16.07.2020
25	St. John's College of Education	National	Classroom Communication Strategies for Teacher Trainees	02.08.2020
26	N.K.T. National College of Education For Women	National	Teach, Unteach and Reteach: Strategies for Ensuring Interactive Online Teaching	05.08.2020
27	N.K.T. National College of Education For Women	National	Quest for Excellence' By Dr. R. Anandhakumar, I.A.S., Special Secretary, Finance Dept., Govt. of Tamil Nadu	26.07.2020
28	Shanmuga Industries Arts and Science College	National	National Webinar on Nano Vs Corona	27.07.2020
29	Vistas	National	Enhancing Higher Order Thinking Skills Among Learners	26.06.2020
30	Ethiraj College For Women	National	Role of Metals In Biological System - Necessity To Toxicity	12.12.2020
31	Yadava College	National	Copyright and Patent Laws: An Overview	03.12.2020
32	All India Federation of University and College Teachers'	National	New Education Policy - 2020"	17.08.2020

	Organisations (AIFUCTO), India			
33	Motilal Nehru Government Polytechnic College, Puducherry.	National	Trends In Digital Technologies For Smart Living : Present & Future”	10.06.2020
34	Rathinam College of Arts and Science	National	Stress Management in Digital Detoxing	14.06.2020
35	Karpagam College of Engineering, Coimbatore	State	Trends in Virtual And Augmented Reality	01.07.2020
36	Thavathiru Santhalinga Adigalar College	State	Scholarly Publications and Citation Metrics	Jul-20
37	St. Vincent De Paul College	State	Free Online Tools Useful for Effective Chemistry Lecturing	09.07.2020
38	Dr. Zakir Hussain College	State	Chemistry & Biology of Virus, Bacteria & Parasites”	19-07-2020
39	N.K.T. National College of Education For Women	State	National Education Policy 2020’	03.08.2020
40	Ethiraj College For Women	State	Citation Database and Analysis, Scientometric Study	9th June 2020
41	Rathinam College of Arts and Science	State	Machine Learning	26.05.2020
42	Arignar Anna Govt. Arts College	State	Application and Utilisation of Electrochemistry	06.06.2020
43	Vellalar College of Education For Women	State	Revitalized Webinar Platform Via Teaching and Learning	05.06.2020 To 06.06.2020
44	Sathyabama Institute of Science and Technology	State	Panoptic of Project Management in Industrial Projects	01-06-2020
45	Sacred Heart College	State	Facts and Myths of Corona	09.06.2020
46	Government College of Education, Komarapalayam	State	Brain Based Learning	30.05.2020

47	SASTRA Deemed to be University	State	Gene and Drug Delivery Systems for Therapeutic Applications”	29-05-2020
48	Thiruthangal Nadar College	State	Plant Derived Antiviral Compounds as Possible Drug Targets Against Covid-19	25th May, 2020
49	Scad College of Education	State	Enhancing Teaching & Facilitating Learning Using ICT	29.05.2020
50	Ethiraj College For Women	State	Moodle LMS" Install, Create Class, Add Content and Enroll Students	28.05.2020
51	Ethiraj College for Women in Collaboration with Wiley and Miles Education	State	Impact Factor, H Index and Google Scholar	16th May 2020
52	Chellammal's Women College	State	Top Notch Training on Proposal Writing	28.05.2020
53	Ethiraj College For Women	State	Webinar on “Plants Vs Good Health”	27th May 2020.
54	Government College of Education Komarapalayam,	State	Mask Making and Tie and Dye	27.05.2020
55	Ethiraj College For Women	State	Medicinal Plants - The Potential Therapeutic Sources for Human Diseases and Disorders	09.05.2020
56	Ethiraj College For Women	State	Exploring and Understanding World Pandemics	11- 13 May 2020
57	Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus	State	Fundamental Concepts in Physical Chemistry and Online Help	22.05.2020
58	Ethiraj College For Women	State	Face Mask Making	21.05.2020
59	C. Abdul Hakeem College	State	MSNPs For Cancer Therapy	18.05.2020
60	Bhaktavatsalam Memorial College For Women	State	Modern Analytical Technologies for Public Health Analysis	15.05.2020
61	SRM Institute of Science and Technology,	State	A Systematic Approach Towards Molecular	15.05.2020

	Ramapuram Campus		Docking and Drug Design	
62	Lady Willingdon Institute of Advanced Study in Education	State	Awareness Programme on Covid 19	29.05.2020
63	Government College of Education, Komarapalayam	State	Webinar on “21st Century Skills	01.06.2020
64	RVS Technical Campus – Coimbatore, Kumaran Kottam Campus, Kannampalayam,	State	Webinar on Hybrid Nanocomposites For Energy Storage	04.06.2020
65	Ethiraj College for Women	National	Basics of Supramolecular Chemistry	03.03.2022
66	TNSCST & DST	National	Intellectual Property Rights	04.08.2022
67	Ethiraj College for Women	National	Basic Concept of Electro-organic synthesis	27.05.2022
68	Ethiraj College for Women	National	Reaction, Mechanism and Dynamics via Theoretical methods	21.04.2022
69	Ethiraj College for Women	National	Atom by atom engineering in cluster science	06.02.2023

AWARDS:

- ❖ Recipient of “**The Principal Miss. Eva Mathew Endowment Prize**” for Chemistry instituted by Principal Miss Eva Mathew on merit come means (2008-2009).
- ❖ Recipient of “**The Shanthy Gnana Prakasam Prize for Chemistry**” instituted by Dr.Gnana Prakasam (2009-2010).
- ❖ A project work on Synthesis and Third Phase formation behaviour of Neodymium(III) in Di-2-ethylhexyl-dioctyl-diglycolamidedone at **INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH (IGCAR), KALPAKKAM** (April 2011- June 2011).
- ❖ Recipient of **Sambuvarayar Endowment Scholarship** from the **University of Madras** for the academic year 2017.
- ❖ Recipient of **Ph.D. full time scholarship and ranked 11** for three years (2017- 2020) from **Tamilnadu Collegiate Education, Government of Tamilnadu**.
- ❖ Received “**Best Paper Award**” for the oral presentation in the **International Conference** on Green Chemistry for a Greener Planet, Department of Chemistry, Anna Adarsh College for women held on 12th Sep 2018.
- ❖ Received “**Best Paper Award**” for the oral presentation in the **National Seminar** on Nanotechnology -the fascinating world of science (NSNT-2019), Department of Chemistry & IQAC, Anna Adarsh College for women held on 22th Aug 2019.

- ❖ Recipient of **ECRIC Fellowship** for one year & six months from **ECRIC, Ethiraj College for Women**.
- ❖ Awarded “**BEST RESEARCH SCHOLAR AWARD**” on the occasion of 4th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology, **IWCETASET – 2020 & Achievement Awards Presentation** Organised by **DK International Research Foundation**, Trichy(approved by Govt. of India, Registration Number:BKIV-1/2018, ISO 9001:2015 Certified &12AA, 80G Approved) held on 28 June 2020.
- ❖ Awarded “**UNIVERSAL BEST RESEARCH SCHOLAR AWARD**” on the occasion of 4th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology, **IWCETASET – 2020 & Rising Star Awards Presentation** organized by **International American Council for Research and Development** (IACRD Indian Chapter approved by Govt. of India, ISO 9001:2015 certified, USA)held on 28 June 2020.

OTHERS:

- ❖ As a **Staff in-charge of the Editorial Board** for the departmental magazine **AURUM 2020** (Department of Chemistry, Ethiraj College for Women, May 2021).
- ❖ As an **Organising Secretary** for the **National Webinar** on Basics of Supramolecular Chemistry conducted by PG & Research Department of Chemistry, Ethiraj College for Women on 03.03.2022.
- ❖ As a **Course Co-ordinator** for the **Value added course (Dyeing & Printing of Fibres)** conducted by the Department of Chemistry for the following academic years.
 - Academic year 2021-2022 (April - May 2022)
 - Academic year 2022-2023 (Oct- Nov 2022)
- ❖ As an **Organising Secretary** for the **International Conference** on Novel Nanomaterials- Synthesis, Fabrication and Applications (NNSFA- 22) conducted by PG & Research Department of Chemistry, Ethiraj College for Women on 14.11.2022.