

<b>Name:</b>	<b>Photo</b> 		
<b>Designation:</b>	ASSOCIATE PROFESSOR		
<b>Qualification:</b>	M.Sc., M.Phil., Ph.D.,		
<b>Area of specialization:</b>	CHEMISTRY		
<b>Experience:</b>	<b>Industrial Experience</b>	<b>Teaching Experience</b>	
	-		<b>20.5</b>
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>	<b>Number of FDPs</b>	
	<b>8</b>	<b>15</b>	
<b>Publications:</b>	<b>Conference</b>	<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>
	<b>1</b>	<b>2</b>	<b>3</b>
<b>Books / Book Chapters</b>	<b>1</b>		
<b>Patents:</b>	<b>National</b>	<b>International</b>	
	<b>6</b>		
<b>Professional Body Membership</b>	1. LIFE MEMBER OF THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) FROM 2012 ONWARDS. 2. IEEE MEMBER FROM 2022 ONWARDS 3. MEMBER IN IAENG 4. MEMBER IN AIS		
<b>Staff Achievements</b>	100 PERCENTAGE RESULTS, APPRECIATION CERTIFICATE FOR MENTEES EXTRAORDINARY PERFORMANCE IN SKILL RACK.		

## Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.sc	CHEMISTRY	2001	GOVT.COLLEGE FOR WOMEN	BHARATHIDASAN	67	I
PG	M.Sc	CHEMISTRY	2003	A.V.C	BHARATHIDASAN	75	I
	M.PHIL	CHEMISTRY	2005	GOVERNMENT COLLEGE FOR MEN	BHARATHIDASAN	88	I
	PH.D	CHEMISTRY	2024	BHARATHIAR UNIVERSITY	BHARATHIAR		

## Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
BIHER	LECTURER	1.06.05	1.06.06	1	-	-
PSVPEC	LECTURER	3.06.06	3.06.09	3	-	-
SSIT	ASSOCIATE PROFESSOR	4.06.09	TILL DATE	16	-	-
SSEC				-	6	-

## Workshops/Seminars attended:

1. Attended a One Day National Workshop on “**Role of polymers in modern engineering materials**” organized by the Department of Science & Humanities at Sri Sairam Institute of Technology on 12<sup>th</sup> March, 2013.
2. Attended a One Day National Workshop on “**Modern techniques for the characterization of polymeric materials**” organized by the Department of Science & Humanities at VIT on 12<sup>th</sup> March, 2013.
3. Attended a One Day National Workshop on “**Green Composites**” by the Department of Mechanical Engineering at Sri Sairam Institute of Technology, on 27<sup>th</sup> August, 2014.
4. Attended a One Day Seminar on “**Recent trends in Renewable Energy**” by Department of Electrical and Electronics Engineering at Sri Sairam Institute of Technology, on 31<sup>st</sup> March, 2015
5. Attended a Two Day National Workshop on “**Revealing the Advancements in material sciences**” by Department of Mechanical Engineering at Sri Sairam Institute of Technology, on 19<sup>th</sup> -20<sup>th</sup> July
6. Attended a Three Day National Workshop on “**Computational Tools in Bimolecular Research**” at Satyabama University on 06th - 08th February,2019
7. Organized a One Day National Level Workshop on “**Advancements in Chemical Science**” organized by the Department of Science & Humanities at Sri Sairam Institute of Technology on 18<sup>th</sup> July, 2016.

**FDP/STTP Attended:**

- 1.Attended a Faculty Development Programme on "**Teaching excellence in engineering and management curriculum**" at Sri Sairam Institute of Technology, on 20<sup>th</sup> -21<sup>st</sup> July,2016.
- 2.Attended a Faculty Development Programme on "**Characterization of materials**" by Department of Physics at Sri Sairam Institute of Technology, on 20<sup>th</sup> -21<sup>st</sup> July,2017
- 3..Attended a Faculty Development Programme on "**Skill development in research projects and patent filling**" by Saveetha Engineering College, on 17 February 2018 at Sri Sairam Institute of Technology, on 20<sup>th</sup> -21<sup>st</sup> July,2017
- 4.Attended a Faculty Development Programme on "**Creative Thinking**" conducted by ICT Academy at Sri Sairam Institute of Technology, on 06th - 07th May, 2019.
- 5.Attended a Faculty Development Programme on "**Teaching Techniques**" conducted by ICT Academy at Sri Sairam Institute of Technology, on 12th - 13th July, 2019.
- 6.Attended a Five day Faculty Development Programme on "Chemistry Significance in Engineering, Pharmacy, Nano Technology and Environment (CEPNE-2020) conducted during 2nd to 6th June 2020.
- 7.Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Alternate Fuels" from 2020-9-1 to 2020-9-5 at Engineering College Bikaner
- 8.Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Waste Technology" from 2020-9-21 to 2020-9-25 at Giani Zail Singh Campus College of Engineering & Technology MRSPTU
- 9.Participated in "5-day online FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21 – 25 September 2020.
- 10.Attended a one day Faculty Development Programme on Recent Pedagogy and ICT tools for outcome based Education held on 02/02/2022.
- 11.Participated in the AICTE Recognized Faculty Development Programme on Essential Industrial Chemistry for Engineers from 05/09/2022 to 09/09/2022 (One Week) at Sathyabama Institute of Science and Technology, deemed to be University.
- 12.Attended "International Faculty Development Program on Foremost Frontiers of Material Science" organised by the Department of Physics, Sathyabama Institute of Science and Technology, Chennai through Zoom Video Communications from 12th to 20th September 2022.
- 13.Participated in the AICTE Recognized Faculty Development Programme on 2D Nanomaterials: Potential & Applications through ICT from 17/10/2022 to 21/10/2022 (One Week) at Sathyabama Institute of Science and Technology, deemed to be University.
- 14.Participated in International Faculty development programme on current scenario in Advanced Material Research and Nanotechnology organized by the Department of Physics & IQAC, Rajapalayam Raju's college, from 21<sup>st</sup> to 25<sup>th</sup> November 2022.
- 15.Attended a Faculty Development Program On Spectroscopic and Chromatographic Techniques from April 24<sup>th</sup> to 28<sup>th</sup> April 2023 at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

**Symposium Attended:**

- 1.Organized a One Day National Level Symposium- SITSCHIUM'15 by the Department of Science & Humanities at **Sri Sairam Institute of Technology** on 28<sup>th</sup> March, 2015.
- 2 .A One Day National Level Symposium- SITSCHIUM'15 by the Department of Science & Humanities at **Sri Sairam Institute of Technology** on March, 2016.
- 3..A One Day National Level Symposium- SITSCHIUM'15 by the Department of Science & Humanities at **Sri Sairam Institute of Technology** on March, 2017
- 4..A One Day National Level Symposium- SITSCHIUM'15 by the Department of Science & Humanities at **Sri Sairam**

**Institute of Technology** on March, 2017

5.A One Day National Level Symposium- SITSCHIUM'15 by the Department of Science & Humanities at **Sri Sairam**

**Institute of Technology** on March, 2018.

.Conference Attended:

- 1.Attended an International Conference on "**Green chemistry and sustainable environment**" by Department of Chemistry at B.S.Abdur Rahman University, on 2<sup>nd</sup> -3<sup>rd</sup> August, 2016
- 2.Attended an International Conference on "**RECENT DEVELOPMENTS OF CHEMISTRY IN ENGINEERING APPLICATIONS**" by Department of Chemistry at VEC, on 3<sup>rd</sup> February, 2018
- 3.Attended an National Conference on "**CHEMISTRY DRIVEN CLEAN PROCESS AND ALTERNATE ENERGIES SCOPE AND CHALLENGES**" by Department of Chemistry at HITS, on 7<sup>th</sup> February, 2018

Completed / Ongoing Projects: -

Patent:

1. Granted a Patent on Water Purifying And Flavor Infusion Devices , Design No. : 347851-001 Date : 12/08/2021
2. Published a patent on An optimized bellow to increase the effiency and stability of the pipe joints, Application number: 202141008189A, Published date: 05/03/2021.
3. Published a patent on Synthesis, Characterization, Antimicrobial And Anticancer Activities Of Pyrimidine, Pyridine Based Benzamide Derivatives, Application No.202241071803 A, Publication Date : 30/12/2022.
4. Published a patent on ZNO Nanoparticle Coated Cassia Auriculata Flower, Gumin, Fenugreek, Aspartame Grinded Powder Mixed Chewable Tablet For Diabetic Control, Application No.202241071813 A, Publication Date : 30/12/2022.
5. Published a patent on LIQUID RECHARGEABLE LITHIUM ION BATTERY FOR ELECTRIC VEHICLE USING DEEPLARNING APPROACH Application No.202341089553 A Publication Date : 12/01/2024
6. Published a patent on DYNAMIC HEALTH FORECASTING FOR EV LI-ION BATTERIES WITH ARTIFICIAL INTELLIGENCE Application No.202441045239 A Publication Date : 21/06/2024

Journal Publications:

- 1.Microwave-Assisted Synthesis Of Novel Piperidone Derivative Comportment Amino-Aryl Moiety And Their Crystal Structure Assessment S Swaminathan, Cc Kanakam - Iranian Journal Of Organic Chemistry 2017,4 (9), 2233-2239
2. Facile Solid State Synthesis And Antimicrobial Activity Studies On Some Piperidone Derivatives s.Sumathi, k.Charles Christopher.A.Nepolraj And S.Ilayarajainternational Research Journal Of Pharmacy, 2019 10 (10), 104-108
3. Synthesis, Characterisation And In Silico Analysis Of 4-(4- (Dimethylamino)Phenyl)-6- Ethyl-1,3-Diphenylpiperidin 2-One As An Inhibitor Of Colon Cancer Sumathi, Cc Kanakam, J Chellam International Research Journal Of Pharmacy Int. Res. J. Pharm. 2018, 9 (11)
- 4.Microwave Assisted Synthesis Of Noval Piperidone Derivatives Bearing Amino Aryl Moiety And Their Anti Microbial Activity Assessment S Sumathi, k.Charles Christopher Heterocyclic Letters ,2017,7 (4), 1085-109

5. Synthesis, Characterisation, Anti-Cancer Activity And Docking Studies Of 4-(4-(Dimethylamino) Phenyl)-1, 3, 6-Triphenylpiperidin-2-One S Sumathi, CC Kanakam, B Thanuja - Research Journal Of Pharmacy And Technology,2022 15 (6), 2483-2485

6. Purification of Reverse Osmosis Concentrate Using Chlorella Vulgaris R.Udayakumar Bathmapriya. L1 , Jeyaraj M2\* , Sumathi Swaminathan3 , Vahitha Rajamohan4 , Ananth Sivapunniyam5\*2023article Journal of Chemical Health Risks Volume15Pages950-965

7. Theoretical Antibacterial and Antioxidant Investigations of Hydroxyl group substituted benzalide schiff bases R Jayaprakash G K Ayyadurai, S Rathika, S.Sumathi2024/6/29Asian journal of chemistryVolume36Issue7Pages1601-1608

#### Books / Book Chapters:

Book name: Recent Developments in Chemistry and Biochemistry Research

Title: Green Supports for Heterogeneous Photocatalysts and their application in Wastewater Remediation (Manuscript Number: 2024/BPR/3409)

#### Awards:

#### Startup:

#### Webinar:

#### Resource Person: Symposium judge

#### Online Courses:

1. Applied Environmental Microbiology
2. Wastewater Treatment and Recycling
3. Sustainable Engineering Concepts and Life Cycle Analysis
4. Air pollution and Control
5. Plastic Waste Management
6. Environment And Development
7. Analytical Chemistry
8. Introduction To Composites
9. Technical Communication for Engineers

