

## FACULTY PROFILE



**Name** : Mrs. S. Pooranalakshmi  
**Designation** : Assistant Professor  
**Department** : Chemistry  
**Date of Birth** : 19.02.1991  
**Date of Appointment:** 18.06.2014

### Academic

Degree	University / Institution	Year of Completion
B.Sc.	Jayaraj Annapackiam College for Women (Autonomous)- Periyakulam	2011
B.Ed.	St. Christopher's College of Education, Veppery - Chennai	2012
M.Sc.	Jayaraj Annapackiam College for Women (Autonomous)-Periyakulam	2014
M.Phil.	Madurai Kamaraj University Evening College - Periyakulam	2017
Ph.D.	Madurai Kamaraj University - Madurai	Pursuing

**Total Experience:** 11 years

**UG** : 11 Years  
**PG** : 11 Years  
**M.Phil.** : 04 Years

**Area of Specialization/Interest:** Nanotechnology & Environmental Studies

### **Professional Affiliation:**

- ✓ 2014-2015- Editorial Team Member in JAC News
- ✓ 2014-2018- Member in Hope Club
- ✓ 2016-2019- Member in Physical Education Committee
- ✓ 2018-2023 – Member in Discipline Committee
- ✓ 2019-2021 – Member in Extension Committee
- ✓ 2019-2021 – Member in Foundation Course Committee
- ✓ 2020-2021 – Member in Eco Club
- ✓ 2021-2024 – Member in IQAC
- ✓ 2023-2024 – Member in Women Cell
- ✓ 2024-2026 – Member in Hope Club
- ✓ 2025-2026 – Member in MoU Club
- ✓ 2025-2026 – Member in Attendance Committee
- ✓ 2025-2026 – Member in Entrepreneur Cell

### Patent Awarded:

S.No.	Name of the Staff	Title of the Invention	Date
1.	<b>Mrs. S. Pooranalakshmi</b> , Assistant Professor	Deep Eutectic Solvents-Based Agent Bearing Derivatives of Caprolactone for Drug Carrier Applications (The Patent Journal Office No. 53/2021)	31.12.2021

### Award

S.No.	Name of the Staff & Designation	Name of the Award	Date of Award	Awarding Agency	Level: International / National /State / Regional
1.	Mrs.S. Pooranalakshmi, Assistant Professor	Pasumai Vithaisemmal Viruthu	17.11.2024	Pasumai vasal Foundation	State

### Book Publication:

S.No.	Name of the Staff	Title of the Book	Publishers	Year
1.	<b>Mrs. S. Pooranalakshmi</b> , Assistant Professor	Allied Chemistry III and IV	Shanlax Publications	2021
2.	<b>Mrs. S. Pooranalakshmi</b> , Assistant Professor	Applied Chemistry	Lambert Academic Publishing	2025

### Short Term Course:

Name of the Staff	Title of the Course	Duration
<b>Mrs. S. Pooranalakshmi</b> Assistant Professor	NPTEL Online Course on Basics in Inorganic Chemistry	4 Weeks (January to February,2024)

### Research Publications:

#### International Publications: 04

1. **S. Pooranalakshmi**, S. Nazima Banu, Green Synthesis and Characterization of Silver (Ag) Nanoparticle Using Olive Leaf Extract, International Journal of Universal Pharmacy and Bio Sciences 5(1): January- February 2016 (ISSN): 2319-8141
2. **S. Pooranalakshmi\***, G. Aruna, V. Priya, A. Sabura Banu, Green Synthesis and Characterization of Lead Oxide (PbO) Nanoparticle Using Phyllanthus Amarus

(keelanelli) Extract and their Antimicrobial Activity, International Journal of Universal Pharmacy and Bio Sciences 6(1): January- February 2017 (ISSN): 2319-8141

3. S. Nazima Banu, **S. Pooranalakshmi\***, M. Rajan\*\*, Green way approach of PbO Nano Photocatalytic Degradation of an Organic Pollutant as Methylene Blue, International Journal of Universal Pharmacy and Biosciences,7(1), January – February 2018 (ISSN): 2314-8141
4. C. Gowri Shankari, **S. Pooranalakshmi\***, Photo degradation of Methyl Orange & Rhodamine B Dyes Using Green Synthesized ZrO<sub>2</sub> Nanocatalyst, Journal of Emerging Technologies and Innovative Research, ISSN UGC Approved (Journal No. 63975), Volume 7, Issue 2, February – 2020

#### National Publications: 04

1. **S. Pooranalakshmi**, M. Kalanithi, Comparison of Photo Catalytic Degradation of Methylene blue Using Nano-Sized CdO and PbO Catalysts, Journal of Science, Humanities and Management vol.1 No15 (June 2015) ISSN 2347-9868
2. T. Monisha Mole, **S. Pooranalakshmi**, Photocatalytic Degradation of Methylene Blue using Green Synthesizes PbO Nanoparticle, Journal of Science, Humanities and Management vol.5 No 2 (December 2018)
3. **S. Pooranalakshmi**, Photodegradation of Rhodamine – B by Green Synthesized ZnO Nanocatalyst under UV light irradiation, JAC JOSHAM, ISSN: 2347-9868, Vol 8, P. No. 01-12 (June 2021)
4. C. Jeevitha, **S. Pooranalakshmi**, Phytochemical Analysis and Antimicrobial Activity of Green Synthesized ZnO-Nps Using Hibiscus Calyphyllus (Flower) Extract, JAC JOSHAM, Volume 11, No. 01 (December 2023)

#### Seminars/ Conferences/ Workshops Participated:

Year	Title of the Paper	Seminar	Place & Date
2014-15	Photo Degradation of Methylene Blue by using Nano sized PbO and CdO Catalyst”	DST & UGC Sponsored National Seminar on Emerging Trends in Chemistry (ETC- 05)	CPA College, Bodi. 18 <sup>th</sup> and 19 <sup>th</sup> September, 2014
2014-15	Synthesis and Analysis of Potassium Aluminium Sulphate (Alum) from Waste Aluminium Can	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-6)	PG Dept of Chemistry, JAC, Periyakulam on 8 <sup>th</sup> and 9 <sup>th</sup> January 2015
2015-16		UGC Sponsored	Central Library,

	-	National Seminar on Ranking the Research Publication: Citation Databases and Anti-Plagiarism	JAC, Periyakulam on 27 <sup>th</sup> and 28 <sup>th</sup> January 2016
2015-16	Energy Conservation	National Seminar on Environmental Issues and Challenges for Sustainable Development	JAC, Periyakulam on 15 <sup>th</sup> to 17 <sup>th</sup> February 2016
2016-17	Green Synthesis and Characterization of Copper Oxide (CuO) Nanoparticle Using Guava Leaf Extract and their Antimicrobial Activity	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-7)	PG and Research Centre of Chemistry, JAC, Periyakulam on 11 <sup>th</sup> and 12 <sup>th</sup> January 2017
2016-17	Comparison Study of Photocatalytic Activity of Methylene Blue and Methyl Orange Dyes Using Green synthesized PbO and CuO Nanocatalyst	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-7)	PG and Research Centre of Chemistry, JAC, Periyakulam on 11 <sup>th</sup> and 12 <sup>th</sup> January 2017
2017-18	Greensynthesis and Characterization of CuO nano particle using Mentha Longifolia	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-8)	PG and Research Center of Chemistry, JAC, Periyakulam on 23 <sup>rd</sup> January 2018
	Greensynthesis and Characterization of PbO nano particles	Emerging Trends in Materials-2018 (NCETM-2018)	Physics, Chemistry, Biotechnology and Microbiology, Mary Madha College of Arts and Science, Periyakulam on 6 <sup>th</sup> March 2018
2018-19	-	IAS Sponsored Lecture Workshop on Recent Trends in Chemistry (RTC-9)	PG and Center of Research Chemistry, JAC, Periyakulam on 28 <sup>th</sup> and 29 <sup>th</sup> September 2018
2019-2020	Photodegradation of Methylene Blue using Green Synthesized ZrO <sub>2</sub> Nanocatalyst	National Seminar on Recent Trends in Chemistry (RTC-10)	PG and Research Centre of Chemistry, JAC, Periyakulam on 10 <sup>th</sup> December 2019
	Green way Approach of PbO Nano Photo catalytic degradation of an Organic Pollutant as Methylene Blue		
2023-2024	Green Synthesized and Characterization of Cu <sub>2</sub> O-Nps using <i>Tridax Procumbens</i> (Leaves) Extract	International Conference (Hybrid Mode) on Advanced Functional Materials for Sustainable Development	PG and Research Center of Chemistry, JAC, Periyakulam on 04 <sup>th</sup> & 05 <sup>th</sup> March 2024

### Conference Presentations:

Year	Title of the Paper	Seminar	Place & Date
2014-2015	Photo Degradation of Methylene Blue by using Nano sized PbO and CdO Catalyst	DST & UGC Sponsored National Seminar on Emerging Trends in Chemistry (ETC- 05	CPA College, Bodi on 18 <sup>th</sup> and 19 <sup>th</sup> September, 2014
2014-2015	Synthesis and Analysis of Potassium Aluminium Sulphate (Alum) from Waste Aluminium Can	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-6)	PG Dept of Chemistry, J A College, Periyakulam on 8 <sup>th</sup> and 9 <sup>th</sup> January 2015
2015-2016	Energy Conservation	National Seminar on Environmental Issues and Challenges for Sustainable Development	J A College, Periyakulam on 15 <sup>th</sup> to 17 <sup>th</sup> February 2016
2016-2017	Green Synthesis and Characterization of Copper Oxide (CuO) Nanoparticle Using Guava Leaf Extract and their Antimicrobial Activity	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-7)	PG and Research Centre of Chemistry, J A College, Periyakulam on 11 <sup>th</sup> and 12 <sup>th</sup> January 2017
2017-2018	Green Synthesis and Characterization of CuO Nanoparticle using Mentha Longifolia	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-8)	PG and Research Center of Chemistry, J A College, Periyakulam on 23 <sup>rd</sup> January 2018
	Green Synthesis and Characterization of PbO Nanoparticles	National Conference on Emerging Trends in Materials- 2018 (NCETM-2018)	Department of Physics, Chemistry, Biotechnology and Microbiology, Mary Madha College of Arts and Science, Periyakuam on 6 <sup>th</sup> March 2018
	Photodegradation of Methylene Blue using Green Synthesized ZrO <sub>2</sub> Nanocatalyst	National Seminar on Recent Trends in Chemistry (RTC-10)	PG and Research Center of Chemistry, JAC, Periyakulam on 10 <sup>th</sup> December 2019

2019-2020	Green way Approach of PbO Nano Photo catalytic degradation of an Organic Pollutant as Methylene Blue		
2020-2021	Synthesis and Characterization of Ag Nanoparticles	National E- Conference on Advanced Research in Materials	Department of Physics (SF), Kamaraj College, Thoothukudi on 22 <sup>nd</sup> & 23 <sup>rd</sup> February 2021
2023-2024	Green Synthesized and Characterization of Cu <sub>2</sub> O-Nps using <i>Tridax Procumbens</i> (Leaves) Extract	International Conference (Hybrid Mode) on Advanced Functional Materials for Sustainable Development	PG and Research Center of Chemistry, JAC, Periyakulam on 04 <sup>th</sup> & 05 <sup>th</sup> March 2024

### Webinars Attended:

Year	Name of the Conference	Date & Organization
2019-2020	Flipped Classrooms- the way forward	PG & Research Department of Chemistry, Bishop Heber College (Autonomous), Tiruchirapalli on 21.05.2020
	Waste to Wealth- Catalytic Approach	Department of Chemistry and Research Centre, Aditanar College of Arts and Science, Tiruchendur on 29.05.2020
	COVID 19-Scientific Perspective	Department of Chemistry & Research Centre, Aditanar College of Arts and Science, Tiruchendur on 30.05.2020
	Recent Trends in Material Frontiers	Department of Science, St. Joseph's College of Engineering, Chennai on 29 & 30.05.2020
	COVID-19 Quiz	St. Anne's B.Ed. College for Women, Thamaraiikulam on 01.06.2020
	Web Development in Python Using Pycharm	Department of Computer Science and Engineering, St. Anne's College of Engineering and Technology, Anguchettipalayam, Panruti on 02.06.2020
	Impact of COVID-19 in Service Sector: Strategies to Overcome the Challenges	PG & Research Centre of Commerce, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in association with Department of Business Administration, Auxilium College (Autonomous), Vellore on 01 & 02.06.2020

Free Statistical Tool for Research Data Analysis and Research Publication with Special Reference to Citation, Impact Factor and h Index	Library, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 01 & 02.06.2020
VFX Techniques in Video Editing	Department of Computer Science and Engineering, St. Anne's College of Engineering and Technology, Anguchettyalalayam, Panruti on 03.06.2020
Triage Crisis & Universal Remedy - Covid 19, A Perspective	National Service Scheme, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 03.06.2020
Digital Tool for Effective Teaching	Department of Commerce with Computer Applications, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 04.06.2020
Hybrid Nanocomposites for Energy Storage	Department of Science and Humanities, RVS Technical Campus – Coimbatore, Kumaran Kottam Campus, Kannampalayam, Coimbatore on 04.06.2020
Five-Day National Level Online Course on Chemistry in Our Day-to-day Life	PG & Research Department of Chemistry, Jamal Mohamad College (Autonomous), Tiruchirapalli from 04.06.2020 to 08.06.2020
Chemoselective Reactions for Competitive Exams	Department of Chemistry & Physics, Nadar Saraswathi College of Arts & Science, Theni on 05.06.2020
Supply Chains in Post COVID World	Department of Business Administration, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 06.06.2020
Challenges for College Teachers in the new Educational Scenario	Mary Matha College of Arts & Science, Periyakulam on 06.06.2020
Future of Examinations: Bloom's Taxonomy and Multiple Assessment Tools	G. T. N. Arts College (Autonomous), Dindigul, Tamilnadu on 08.06.2020
Faculty Development Programme on Communication	Mary Matha College of Arts & Science, Periyakulam on 08.06.2020
Functional Properties and Bandgap Engineering of ZnO-GaN Alloys	PG and Research Department of Physics Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 08.06.2020

	Organic Foods and Healthy Life Style	Bachelor of Vocation in Beauty Wellness and Health Care, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 10.06.2020
	Porous Carbon- Based Nanocomposite for Energy Storage and Sensing & Chemical Biology of Covid-19	PG and Research Center of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 11 & 12.06.2020
	Green Materials for Environmental Sustainability	Department of Science, St. Joseph's College of Engineering, Chennai on 12.06.2020
	International e-Quiz Programme on Economic Policies on Asia-Pacific Nations against the Impact of COVID-19 Pandemic	PG & Research Department of Economics, Saraswathi Narayanan College, Madurai on 18.06.2020
<b>2020-2021</b>	Ethics and Entrepreneurship – Smart Tips	Department of Science, St. Joseph's College of Engineering, Chennai on 13.08.2020
	Solar to Hydrogen Fuel Generation	Department of Science, St. Joseph's College of Engineering, Chennai on 14.08.2020
	Exploration of Main Group Compounds for Promoting Metal-Free Transformation in Industries	Department of Science, St. Joseph's College of Engineering, Chennai on 19.08.2020
	National Level E-Quiz on Nobel Prize	PG & Research Department of Physics & Internal Quality Assurance Cell (IQAC), The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli on 22.08.2020 & 23.08.2020
	Rotary Compressor Research and innovation at NTU,	Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur, Kerala on 27.08.2020
	A Three-Day Online Faculty Development Programme on Condensed Matter Physics under DBT Star College	PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli from 19.10.2020 to 21.10.2020
	Molecular Modelling for Beginners - Hands on Training in Argus Lab	PG & Research Department of Chemistry, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai on 31.10.2020
	Natural Dyes: An Alternative Source of Natural Dyes	Department of Chemistry & Research Committee, Arasu Engineering College, Kumbakonam on 29.12.2020
	National E- Conference on Advanced Research in Materials	Department of Physics (SF), Kamaraj College, Thoothukudi on 22 & 23.02.2021
	National Level Virtual Webinar on Material Science	Department of Chemistry, Karpagam Academy of Higher Education, Eachanari, Coimbatore on 11.03.2021



	Two Day International Webinar on Recent trends in Chemistry (RTC-I-2)	PG and Research Center of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 11 & 12.03.2021
	One Day Faculty Enrichment Programme on Emerging Fields in Chemical Sciences	Postgraduate and Research Department of Chemistry, Vivekananda College, Tiruvedakam West, Madurai, Tamil Nadu under UGC-CPE grant on 22nd March 2021
	National level Webinar on Environmental Issues and Challenges	Department of Chemistry, Government Degree College for Women, Karimnagar, Telangana state on 17.04.2021
<b>2021-2022</b>	State Level Webinar on Extension – The third Dimension of Higher Education	JACEP, JAC- Periyakulam on 21.08.2021
	International Webinar on Recent Trends in Chemistry (RTC-I-3)	PG and Research Center of Chemistry, JAC – Periyakulam on 18.09.2021
<b>2022-2023</b>	International Webinar on Recent Trends in Chemistry (RTC-I-4)	PG and Research Center of Chemistry, JAC – Periyakulam on 19.12.2022
<b>2023-2024</b>	International Webinar on Recent Trends in Chemistry (RTC-I-5)	PG and Research Center of Chemistry, JAC – Periyakulam on 19.09.2023
<b>2024-2025</b>	One Day National Level Workshop on Chemdraw and Chems sketch	A.C.T. Academy, Kerala & Tamil Nadu on 21.08.2024
	International Webinar on Recent Trends in Chemistry (RTC-I-6)	PG and Research Center of Chemistry, JAC – Periyakulam on 06.09.2024
	Five-Day International Webinar-cum-Faculty Development Programme (FDP) on Innovative Approaches in Green Chemistry for Addressing Emerging Challenges in Chemical and Allied Sciences	Department of Chemistry, JMJ College for Women (Autonomous), Tenali from 10.09.2024 to 14.09.2024
<b>2025-2026</b>	Two Days online Workshop on Molecular Docking Procedure	A.C.T Academy, Kerala on 30.06.2025 and 01.07.2025
	Five Day International Virtual Faculty Development Programme (IVFDP) on Harnessing Generative AI: Smart Tools for Teaching, Learning, Evaluation & Research (TLE&R)	Department Of Computer Science, St. Joseph's College, (A u t o n o m o u s ), Tiruchirappalli, Between 7 <sup>th</sup> And 1 <sup>th</sup> July, 2025

**Research Experience: 09 years**

**Research Guidance:**

No. of UG Projects Completed: **02**

No. of PG Project Completed: **07**

**Contact Details:**

<b>Present Address</b>	<b>:</b>	<b>D/o Mr. K. Subbaiyan, 17E, Ambethkar Nagar, T. Kallipatti (Po), Periyakulam (Tk), Theni (Dt)- 625601.</b>
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