

Name : Dr. T. THILAGAVATHI

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

Designation : Assistant Professor

Department Name : Physics

Date of Birth : 13.06.1983

Date of Appointment : 29.07.2015

Office Address : Government College for Women (A), Kumbakonam.

Mobile No : +91 9486075357, +91 7904514711

E-mail Id : tt.thilagavathi@yahoo.com, dr.t.thilagavathi@gcwk.ac.in

Specialization : Ultrasonics and Nanoscience

Experience (UG / PG) : UG-10 years, PG-8 years

Research Guidance :



Programme	Awarded	Ongoing
M.Sc	19	03
M.Phil	03	-
Ph.D	-	01

Paper Published

S.No	Title of the Paper	Journal Name	Volume, Page No	Year
1	Sankaranarayanan – Ramasamy (SR) technique L-threonine lithium chloride single crystal: Unidirectional growth, optical and mechanical studies	Materials Today: Proceedings	2214 - 7853	2023
2	Synthesis and antimicrobial activity of silver nanoparticles: incorporated couroupita guianensis flower petal extract for biomedical applications	Journal of King Saud University science	35(1), 102455	2023
3	Synthesis and characterizations of CuO nanoparticles using Couroupita guianensis extract for and antimicrobial applications	Journal of King Saud University science	34(3), 101910	2022
4	Solanum torvum mediated synthesis and characterization of silver nanoparticles for antibacterial activities	Journal of Plant Biochemistry and Biotechnology	30(3), 597 - 601	2021

5	Biosynthesis of silver nanoparticles using Phyllanthus emblica fruit extract for antimicrobial application	Biocatalyst and Agricultural Biotechnology	24, 101567	2020
6	Green synthesis of magnetic nanoparticles via Cinnamomum verum bark extract for biological application	Journal of Environmental Chemical Engineering	8(5) 104420	2020
7	Bio-synthesis of silver nanoparticles using Punicagranatum (Pomegranate) peel extract: A Novel approach towards waste utilization	International Journal of Advanced Science and Engineering	3, 234 - 236	2016
8	Effect of polymers (PEG and PVP) on sol-gel synthesis of micro sized zinc oxide	Journal of Nanomaterial	43 - 49	2013
9	Nano ZnO structures synthesized in presence of anionic and cationic surfactant under hydrothermal process	Applied Nanoscience	4, 127 - 132	2013
10	Low-temperature hydrothermal synthesis and characterization of ZnO nanoparticles	Indian Journal of Physics	87, 747 - 750	2013
11	Hydrothermal synthesis of nano ZnO structures from CTAB	Digest Journal of Nanomaterial and Biostructures	5(1), 297 - 301	2010
12	Influence of Synthetic Polymer on Aqueous Anionic Surfactant (SDBS) Micelle Investigated by FT-IR and Ultrasonic Study	Composite Interface	17(2 - 3), 247 - 256	2010
13	Liquid Crystalline Behaviour of Sodium Dodecyl Benzene Sulphonate, N-cetyl N, N, N,-Trimethyl Ammonium Bromide, Poly (Ethylene Oxide)(20) Sorbitan Monolaurate: an Experimental ...	Middle - East Journal of Scientific Research	4(3), 185 - 189	2009

Details of Conference/Seminars/Workshop Attended

S.No	Title Of the Event	Date	Place	National/ International
1	Faculty Development Programme	22nd Aug2015	Internal Quality Assurance Cell, GCWK.	National
2	Mini winter school on PYTHON	Feb 14-16, 2017	PG and Research Department of Physics, GCWK	National
3	Symposium on Trends Setters in Materials Science	6 th & 7 th Feb2018	Government college for women (A), Kumbakonam	National
4	Workshop on Troubleshooting of Physics Laboratory Equipments and Repair	28 th Feb-2018	PG and Research Department of Physics, GCWK	National
5	Mathematical Physics and Statistical Mechanics	OCT (3-5)-2018	P.G. and Research Department of Physics, GCWK	National
6	Virtual Classroom Made Easy	9 th August 2020	Virtual Classroom Made Easy“,09.08.2020, Government College for Women, (Autonomous), Kumbakonam	National

FDP / Orientation / Refreshes Courses Attended

- Attended Orientation Programme (UGC-HRDC) conducted by Bharathidasan University on 3-30th march 2017.
- Attended Refresher Programme (UGC – HRDC) conducted by Madras University on 11 – 24th October 2019.
- Attended Refresher Programme (UGC – HRDC) conducted by Madras University on 27.01.2022 to 09. 02 2022.

Details Of Workshop/Conference/Seminar Organised:

S.No	Name Of the Events	Title	Duration	Role	Resource Person	Place
1	Workshop	Trouble shooting of Physics Laboratory Equipments and Repair	1 day (28 th Feb 2018)	Organizing Secretary	M. Kalaiselvi (Lakshmi Electronics) Tiruchirappali	Einstein Lab, Department of Physics GCWK
2	Workshop	Materials Modelling using Quantum Espresso – Theory and Practice for Beginners	2 Days (29 th & 30 th July 2019)	Organizing Secretary	Dr.Praveen C. S Dr. K. C. Bhamu Dr. Subramanyam Sapatti National Chemical Laboratory, Pune	SSS Seminar Hall, GCWK
3	Workshop	Corporate Connect through PYTHON (CCTP – 23)	1 Day (10 th Jan 2023)	Organizing Secretary	Dr. B. Tamilarasan Mr.Selvakumar Murugan Mr. Naveen Prasanth Saama – AI lab, Chennai	SSS Seminar Hall, GCWK