Faculty Profile

1. Name: G. Swetha

2. **Designation:** Assistant Professor of Physics

3. Department: Physics

4. **Age & DOB**: 27 & 09.06.1994

5. Date of first appointment: 02.12.2020

6. Educational Qualification:



Degree / Diploma /	Subject	Name Of The Institution	Year Of Passing	Remarks
Certificate				
B.Sc	Physics	ADM College for	2015	Distinction
		Women (A),		
		Nagapattinam		
M.Sc	Physics	ADM College for	2017	Distinction -
		Women (A),		Autonomous 2 nd
		Nagapattinam		Rank
Ph.D	Physics	D.G Government Arts	2020	Submitted
		College for Women,		
		Mayiladuthurai		

7. Academic/Teaching Experience

S. NO.	INSTITUTION	FROM – TO
1.	ADM College for Women (A),	02.12.2020 to Till date
	Nagapattinam	

- 8. Area of specialization: Crystal Growth, Material Science and Biomedical applications
- 9. **Area of Research Interest:** Crystal Growth, Material Science and Biomedical applications

10. Papers Presentation

S. NO.	NAME OF THE PAPER	ORGANIZED BY	DATE
1.	Thermoanalytical and Calorimetric	international E- Conference on	Nov -23 to 25,
	of the three polymorphs phase	advancements in Materials	2020,
	behavior of (E)-4-Fluoro-	science and technology,	
	2[(Phenylimino) Methyl]Phenol	organized by the Sathyabama	
	Single crystal and Biomedical	Institute of Science and	
	applications	Technology, Chennai.	

2.	Synthesis, Crystal Structure and Physical Properties of Three Polymorphs of (E)-4-Fluoro-2- [(Phenylimino)Methyl]Phenol and DSC Studies of the Phase Transition Kinetics"	National conference on synthesis and characterization of novel materials" organized by the Muthurangam Government Arts college, (Autonomous), Vellore	July 6 and 7, 2020
3.	Synthesis and characterization of (E)-4-Bromo-2[(Phenylimino) Methyl] Phenol and Biomedical Applications	International Conference on Natural Therapeutics (ICNT) 2020, D G Government Arts College, Mayiladuthurai.	Feb 6 th , 2020
4.	Synthesis and characterization of (E)-4-Bromo-2[(Phenylimino) Methyl] Phenol and Biomedical Applications" on Participation in "Materials Modeling using Quantum Espresso – Theory and Practice for beginner (QE19)",	UGC Sponsored National level workshop on Government Arts College for Women, Kumbakonam	July 29 th and 30 th , 2019.
5.	Identification of new Schiff base organic phase change crystal for thermochromic application",	5 th International Conference on Nano Science and Nano Technology (ICCON-2019), SRM Institute of Science and Technology, Chennai.	Jan 28 th - 30 th , 2019,
6.	Thermal analysis of novel Schiff based phase change material	International Workshop on Materials Technology and Application on held at VIT, Vellore	Oct 11 th and 12 th , 2018,
7.	Crystal growth and crystal structure of phase change material"	International Conference on Molecular structure of Nano and biomaterials (ICMSNBM-2018), Arignar Anna Government Arts College, Cheyyar.	Sep 28 th and 29 th , 2018
8.	Spectral properties of (E)-4-Bromo-2[(Phenylimino) Methyl] Phenol an organic crystal for thermochromic application - A Phase change crystal	National Conference on Recent Advances in Spectroscopy of Advanced Materials, on held at Bishop Moore College, Mavelikara, Kerala.	Sep 25 th - 26 th , 2018
9.	Designing the Phase change material with mechanical, microstructure and crystallography data	1 st National Conference on Recent Advancements in Nanotechnology on National Institute of Technology (NIT), Puducherry.	Sep 19 th & 20 th , 2018

10.	Thermal Analysis and Heat Capacity of Novel Schiff Base Soft Single Crystal (E) -4- Bromo -2 [(Phenylimino) Methyl] Phenol"	National Conference on Recent Trends in Physics of Materials (NCRTPM - 2018), Pachaiyappa's College Chennai 600 030, Tamilnadu.	Feb 09 th , 10 th 2018
11.	Crystal Growth, Crystal Structure, Phase Transition and Optical Properties of 5FSA	National Symposium and 29 th Annual General Meeting of MRSI on Advances in Functional and Exotic Materials on conducted by MRSI collaborated with Bharathidasan university (BARD), Tiruchirappalli.	Feb 14 th , 16 th 2018
12.	Synthesis and temperature-induced structural phase transition in Schiff based soft materials	National Symposium and 29 th Annual general meeting of MRSI on Advances in Functional and Exotic Materials, on Feb conducted by MRSI collaborated with Bharathidasan university (BARD), Tiruchirappalli, and got Best proposal student's award 2018.	14 th , 16 th , 2018
13.	Synthesis and temperature-induced structural phase transition in Schiff based soft materials	National Symposium and 29 th Annual general meeting of MRSI on Advances in Functional and Exotic Materials, on conducted by MRSI collaborated with Bharathidasan university (BARD), Tiruchirappalli, and got <i>Best proposal student's award 2018</i> .	Feb 14 th , 16 th , 2018
14.	Structural phase transition in the soft material crystal-thermal and XRD studies"	International Conference on Recent Advances in Applied Physics (ICRAAP)-2017 Annamalai University, Chidambaram.	Sep 21 st , 22 nd , 2017

11. Papers Publications

.No	Article	Name of the Journal	Year
1.	Consecutive phase transition in the new polymorphic crystal 4F2PMP, acritical study of thermal stress in the crystal structure with DSC and VT-PXRD analysis	Materials Today: Proceedings, , Vol 47, Pg NO: A1–A, ISSN No 2214-7853	2021
2.	Synthesis, Thermal and Antimicrobial Activity of Novel Organic Single Crystal of (E)-4-Bromo-2-[(phenylimino)methyl]phenol Compound,.	Asian Journal of Chemistry; Vol. 32, No. 11, 2887-2892, https://doi.org/10.14233/ajchem .2020.22872	2020
3.	An analysis of thermal decomposition of (E)-4-Iodo-2- [(Phenylimino)Methyl]Phenol crystal compared toThermogravimetry (TG), and Fourier transforminfrared (FTIR) techniques,	International Journal of Pharmaceutical Research, pp:2400-2405. ISSN No 0975- 2366	2020
4.	Synthesis and characterized optical, thermal and mechanical properties of (e)-4-methyl-2-(n-phenylcarboximidoyl) phenol compound and application for protein estimation, antimicrobial activity,	International Journal of Advanced Research in Engineering and Technology (IJARET), 11(9), pp. 116-125.	2020
5.	(E)-Iodo-2-[(phenylimino) methyl] phenol	IUCr Data(2019).1,×190788	2019
6.	(<i>E</i>)-4-Methyl-2-(<i>N</i> -phenylcarboximido-yl)phenol,	<i>IUCrData</i> (2018). <u>3</u> , x180464.	2018
7.	(E)-Fluoro-2-[(phenylimino) methyl] phenol	IUCrData(2017).1,×171671.	2017
8.	Determination of Protein Concentration and Antimicrobial Activity of (E)-4- Methyl-2-(N- Phenylcarboximidoyl)Phenol Compound,	11, Issue 8 2020, doi.org/10.37896/pj11.08/006	2020
9.	Crystal Growth And Characterizations of Organic Schiff Based Crystal Of (E)-4- chloro-2[(phenylimino) Methyl] Phenol For Pharmaceutical Application,	The International Journal of Analytical and Experimental Modal Analysis, Vol XII, Issue IV, April/2020, doi:18.0002.IJAEMA.2020.V1 2I3.200001.0156574.	2020