



Name of the Department : **PHYSICS(PG)**
Name of the faculty member : STELLA RANI C
Present Designation : ASSISTANT PROFESSOR
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email : stella1982rani@gmail.com
Gender : FEMALE
Community : BC
Date of Birth and Age : 21/05/1982, 35 yrs.
Date of joining the present post : 04/09/2008
Date of Retirement : 30/09/2040

I. Particulars of Educational Qualification: (Awarded only)Ref.No./Date/Copy to be enclosed

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.	PHYSICS	2003	Sarah Tucker College	M.S. University	76	I
PG	M.Sc.	PHYSICS	2005	Sarah Tucker College	M.S. University	68	I

II. Academic Experience:

Name of the College	Whether Govt/Aided/S.F.	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Govt. Engineering College, Palai	SF	Assistant Professor	10/2008	04/2007		6	
St. John's College Palayamkottai	SF	Assistant Professor	04/09/2008		10		27
Total					10	6	27

III. Details of Research Experience

- a) No. of papers published in journals : 03
b) No. of papers presented in conference : 04
c) No. of conferences attended : 08
d) No. of projects guided : M.Phil : 02
M.Sc : 12

1.3 Participation in National/ state level / international seminars/ workshops:

S. No	Name of the Seminar	National / International	Venue	Date	Oral / Poster / Participation	Topic
1.	Radiation and Environmental Physics – SAPP 2010	National	WCC, Nagercoil.	18.02.2010	Participation	-
2.	Recent Trends in Material Science – TRIMS' 2013	National	STC, Tirunelveli.	18.10.2013	Oral	-
3.	Emerging Trends in Chemical Sciences – IETC 2013	International	VIT, Vellore.	05.12.2013 to 07.12.2013	Poster Presentation	-
4.	Recent Trends in Physics	State	St. Johns College, Tirunelveli.	15.04.2016	Participation	-
5.	Current Advancement in Physics	National	St. Johns College, Tirunelveli.	03.02.2017 to 04.02.2017	Participation	-
6.	Recent Trends in Material Science	National	Adithanar College of Arts and Science, Tiruchendure.	16.02.2018	Poster Presentation	Micro Hardness and Thermal Stability of L-methionine added AFS Single Crystal
7.	Conference	State	Paramakalyani College, Alwarekurichi.	23.02.2018	Poster Presentation	Structural and Dielectric Studies on Pure and L-Methionine added AFS Crystal
8.	Energy Materials NCEM 2018	National	MS University	28.06.2018 and 29.06.2018	Poster Presentation	Spectral Studies on Solution Growth L-Threonine added AFS Crystal
9.	International Seminar on Technologically	International	Muslim Arts College, Thiruvithancode	29.09.2018	Poster Presentation	-

	Advanced Materials ISTAM 2018				
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Workshop:

S. No	Name of the Seminar	Venue	Date
1.	Applications and Development of Advanced Materials ADAM 2018	St. Johns College, Tirunelveli.	23.03.2018
2.	Diffraction Techniques X-ray & Electron Diffraction	STIC, Kerela.	07.02.2018 to 09.02.2018

List of Publications:

1. Stella Rani C, Daniel Sweetlin M & Selvarajan P (2018) “ Studies of and L- Methionine doped AFS Single Crystal grown by solution method”, International Journal of Research and Analytical Reviews, Vol.5, Issue 03,ISSN: 2349-5138, pp 615-622.
2. Stella Rani C, Daniel Sweetlin M & Selvarajan P (2018) “ Growth and Characterization of AFS Crystal doped with L-Threonine”. Journal of Emerging Technologies and Innovating Research September 2018, Issue 09, (ISSN: 2349-5162, pp.363- 369).

Lecture Video Link:

1. Matrices - <https://www.youtube.com/watch?v=MAvxR0Hdq48>
2. Gradient, Divergence & Curl - <https://www.youtube.com/watch?v=cDbi2lMS1uQ>
3. Product of Two Vectors - <https://www.youtube.com/watch?v=g3kWiPk2uQ0>
4. Probability of Magnetic Moment distribution of independent atoms –
<https://www.youtube.com/watch?v=a1-SHbs0HFA>
<https://www.youtube.com/watch?v=8g44GbZzCn0>
5. Boltzmann’s Entropy Relation - <https://www.youtube.com/watch?v=fEbWzLSAIZ0>
6. Maxwell-Boltzmann Distribution law of Velocities
<https://www.youtube.com/watch?v=Twc1gOKp2Kg>
7. Evaluation of constants in Maxwell-Boltzmann Distribution law
<https://www.youtube.com/watch?v=2lCIRCsfGnI>
<https://www.youtube.com/watch?v=sjSfGuCDq1I>
8. Classical Maxwell-Boltzmann Distribution
https://www.youtube.com/watch?v=OSWezbXZr_c
9. General Statistical Distribution - <https://www.youtube.com/watch?v=w5qrL-F3Bqk>
10. Thermodynamic Probability - <https://www.youtube.com/watch?v=DAWKevsTwQc>

11. Relation between Statistical and Thermodynamics Quantity

<https://www.youtube.com/watch?v=VXmRvZPImy4>

12. Stirling's Approximation -

<https://www.youtube.com/watch?v=YSTLVYbpb0>

13. relation between stat and thermodynamics quantity-

<https://www.youtube.com/watch?v=twpfNZcw1js>

14. Microstates and Macrostates -

<https://www.youtube.com/watch?v=pbHf-ehh8no>

15. Connection between Statistical and Thermodynamic quantities-

<https://www.youtube.com/watch?v=1Cc5dLJKL0c>

16. Mechanical Equilibrium-

https://www.youtube.com/watch?v=p3_4PgnnLRk

17. Thermal Equilibrium-

<https://www.youtube.com/watch?v=Yuu3UTY5HYE>

18. Statistical equilibrium -

<https://www.youtube.com/watch?v=b2iMCFwvQpI>

<https://www.youtube.com/watch?v=6PJAB1ojpCw>

19. Postulate of equal priori probability -

<https://www.youtube.com/watch?v=R9yRNvTE16M>

20. Liouville's theorem -

<https://www.youtube.com/watch?v=89KiCxima1o>

<https://www.youtube.com/watch?v=MmLrfWvWHIw>

21. Volume in phase -

https://www.youtube.com/watch?v=MxyIY_v3_-o

22. Division of Phase – Space -

https://www.youtube.com/watch?v=TAWFO_OwK0A

