

GOVERNMENT DEGREE COLLEGE

URAVAKONDA - 515 812





PERSONAL PROFILE

Dr. K. Chandrasekhara Reddy **Lecturer in Physics**

Email: chandrasekharreddyssbn@gmail.com



1. DATE OF APPOINTMENT 02-07-1997

2. DATE OF BIRTH AND AGE 01-06-1964, 60 YEARS

3. QUALIFICATION M.Sc., Ph.D.

Physical studies of Liquid Crystals and 4. TITLE OF THE PH.D. THESIS

Binary Mesophase mixtures.

5. DATE OF AWARD OF Ph. D: 16-04-1996

6. ACADEMIC DEVELOPMENT:

(RC, OC, FDP, TOT, MOOCS, TRAINING PROGRAMMES ETC.)

- 1. UGC Sponsored Orientation Programme at the Academic Staff College, Sri Venkateswara University, Tirupati from 14-06-1999 to 10-07-20219.
- 2.UGC sponsored Refresher Course in "Polymer Science and Technology" organized by the Department of Polymer Science & Technology, Sri Krishnadevaraya University, Anantapuramu from 31-08-2005 to 20- 09-2005.
- 3. UGC Sponsored Refresher Course in "Polymer Science" organized by the Department of Polymer Science & Technology, Sri Krishnadevaraya University, Anantapuramu from 28-09-2007 to 18-10-2007.
- 4. 5 Day Training Program for Teacher's on Sola Energy Content Development and Assessment Methods" (TOT), organized by CCE, A.P. Vijayawada from 10-08-2022 to 14-08-2022.
- 5. One Week Online Faculty Development Program on "Recent Trends in Nanotechnology & Signal Processing" Organized by the Department of Electronics and Communication Engineering, GMR Institute of Technology, Rajam, AP, India, during 23rd -29th August, 2021.

7. RESEARCH PUBLICATIONS:

S. No.	Title of the Paper	Name of the Journal	Month/Year of Publication
1.	Physical studies of binary mesophase mixtures containing n-(propoxy-benzylidene) -p-entylanaline.	Acta Physica Polonica A, 86, 385, 1994.	1994
2.	Physical studies of binary mesophase mixtures containing n-(propoxy-benzylidene) -p-entylanaline.	Acta Physica Polonica A, 86, 385, 1994.	1994
3.	Physical studies of binary mesophase mixtures containing n-(propoxy-benzylidene) -p-entylanaline.	Acta Physica Polonica A, 86, 385, 1994.	1994
4.	Determination of Elastic Constants for Isotropic Solids	Journal of Lab Experiments, Vol-8,No-4,	Dec 2008
5.	Different methods to determine the Refractive index of water	Journal of Lab Experiments, Vol-9, No.1	Mar-2009
6.	Energy gap by four probe method	Journal of Lab Experiments, Vol-9, No.3	Sept-2009
7.	Determination of wavelength of monochromatic light using Fresnel's Biprism	Journal of Lab Experiments, Vol-9,No.4	Dec-2009
8.	Sodium doublet wavelength difference measurements	Journal of Lab Experiments, Vol-1,No.1	Mar-2011
9.	Thermoacoustic And Anharmonic Parameters of Two Cholesteric Liquid Crystals	International Journal Of Multidisciplinary Empirical Research Volume III, Issue 1(2),	April 2011
10.	Estimation of Beyer's Non-linearity Parameter (B/A) and Other Thermoacoustic Parameters for Liquid Crystalline Cinnamic Acid Esters from Co-efficient of Volume Expansion	International Journal of Multidisciplinary Advanced Experimental Research, Vol. II Issue 1(2)	June 2011
11.	Physical Studies of p-cyano phenyl p'-n-heptyl benzoate Liquid crystal	International Journal of Multidisciplinary Advanced Experimental Research, Vol. II Issue 1(2)	Nov 2011
12.	Experimental verification of Fresnel's Equations for reflection	Journal of Lab Experiments, Vol-11, No.4	Dec-2011
13.	Thermoacoustic Parameters Of Methyl stilbene Polymer Liquid Crystal	International Journal of Multidisciplinary Advanced Research Trends, Vol. III, Issue 2	April 2012
14.	Coefficient of Volume Expansion and Thermoacoustic Parameters of Two Nematic Liquid Crystals	Research Journal of Engineering and Technology, Pages 3-9 Volume 5 -Issue 3	July -2012

15.	Thermoacoustic and Anharmonic Parameters of Alkenyl Liquid Crystalline Compounds	Research Journal of Engineering and Technology, Pages 15- 24,Volume5 -Issue 3	July -2012
16.	Effect of Capping Agent on structural and photoluminescence Properties of ZnS Nanoparticles	International Journal of Luminescence and Applications, Vol-5,(4)	Dec 2015
17.	Effect of Thiourea and SHMP Capping Agent on structural and photoluminescence Properties of ZnS Nanoparticles	International Journal of Luminescence and Applications, Vol-5,(4)	Dec 2015
18.	Experimental and Computational study of the Molecular interactions between 2-chloroaniline and substituted ethanol.	Journal of Molecular Liquids	2016
19.	Thermodynamic and theoretical investigations on [Emim][Bf4]/[Bmim][Bf4] and aniline Binary mixtures	The Journal of Chemical Thermodynamics, 139, 105891	2019
20.	Thermodynamic and theoretical investigations on [Emim][Bf4]/[Bmim] [Bf4] and aniline binary mixtures	Journal of Chemical Thermodynamics	2019
21.	Viscosity and refractive index studies on eco- friendly materials	Solid State Technology, 63 (2s), 9373	2020
22.	Microstructured three-dimensional disc-like CuCo2O4/CuO composite derived from a self- assembly mechanism for high-performance Battery Type Super Capacitors	Materials Science in Semiconductor Processing	2023
23.	2D sheet to 1D rod-like morphology regulated self-assembled ZnCo2O4 microstructures under mixed solvent conditions for battery-type Super Capacitors	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2023
24.	Pretreatment Spinal Column Dose Estimation for Spinal SBRT Using Octavius Four-dimensional Phantom and Dose-volume Histograms Four- dimensional Feature: A Dosimetric Analysis	Journal of Medical Physics	2023

8. PAPERS PRESENTED IN SEMINARS/CONFERENCES :

S. No	The title of the paper presented	Organized by	International/ National/ State/University level	Date
1.	Thermoacoustic parameters of Nematogenic difluoro benzene derivatives	SSBN Degree College, Anantapuramu	National Seminar on Emerging Materials and Technologies – (EM 2010)	9-10 October 2010
2.	On the behavior of Induced Smectic G phase in hydrogen-bonded Liquid Crystal	SSBN Degree College, Anantapuramu	National Seminar on Emerging Materials and Technologies – (EM 2010)	9-10 October 2010

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3.	Synthesis, spectroscopic characterization, and DFT calculations on chlorophenyl-substituted pyrazole derivatives	SSBN Degree College, Anantapuramu	National Seminar on Emerging Materials and Technologies – (EM 2010)	9-10 October 2010
4.	Synthesis and characterization of SnO ₂ Nanoparticles by Coprecipitation method	Govt. College(M), UG & PG, Ananthapuramu	National seminar Nanomaterials and Global Perspectives	30-31, January 2015
5.	Structural and Magnetic Properties of Nanocrystalline powders of Iron doped ZnO dilutes magnetic semiconductors synthesized by Chemical co-precipitation Method.	Loyola Degree College (YSRR), Pulivendula	National Conference on Recent Advances in Material Science (NCRAM-2014),	1-2, Nov-2014
6.	Synthesis and Characterization of Nickel doped CdS nanoparticles	Loyola Degree College (YSRR), Pulivendula	National Conference on Recent Advances in Material Science (NCRAM-2014),	1-2, Nov-2014
7.	The Effectiveness of ICT enabled teaching	SSBN Degree College, Anantapuramu	National Conference on ICT Empowered Teaching Learning and Evaluation	16-17, Dec-2016
8.	Group Dynamics and Team Building	GDC, Uravakonda	SDCTEHE National Seminar	March 2017
9.	Impact of Climate Change on Agricultural Productivity in India	Dept. of Physics, S.K.University, Anantapuramu	Facing Challenges on Environment, Climate Change, Agriculture and Human health: National and Regional Scenario	27-28, January 2018
10.	Effect of Global Warming on Indian Agriculture	Dept. of Physics, S.K.University, Anantapuramu	Facing Challenges on Environment, Climate Change, Agriculture and Human health: National and Regional Scenario	27-28, January 2018
11.	Women Entrepreneurship in India- Issues and Challenges	Government College Anantapuramu.	UGC sponsored Two Day National Seminar on Role of Women on Contemporary Issues and Challenges- National Perspective	Feb 06-07, 2018
12.	Drug Trafficking and Terrorism	K.V.R. Govt. Women's College, Kurnool	ICSSR Sponsored Two day International Seminar- International Terrorism and Women Trafficking — Challenge and Policy options	31Jan 2019- 01 Feb 2019

9. SEMINARS ORGANIZED

S. No.	Year	Seminar	Place
1.	2020	UGC sponsored Two Day National Seminar on Emerging Materials and Applications	S.S.B.N. Degree College Ananthapuramu (National level)
2.	2019	UGC Sponsored National Conference on Recent Trends in Materials Science	S.S.B.N. Degree College Ananthapuramu (National level)
3.	2018	National Seminar on Recent Advances in Polymers-Diverse Applications	S.S.B.N. Degree College Ananthapuramu (National level)
4.	2016	Seminar on Global Climate Changes- Present day situations	S.S.B.N. Degree College Ananthapuramu (National level)
5.	2016	Orientation Programme To Teacher Guides of Inspire Awardees	S.S.B.N. Degree College Ananthapuramu (State level)
6.	2016	One-Day National Seminar on Recent Trends in Solar Power Generation	S.S.B.N. Degree College Ananthapuramu (National level)
7.	2014	National Conference on Recent Advances in Science & Technology.	S.S.B.N. Degree College Ananthapuramu (National level)

10. RESEARCH GUIDANCE

(A) No. OF MPhil's AWARDED:

S.NO	NAME OF THE SCHOLAR	RESEARCH DEGREE	UNIVERSITY	YEAR	TOPIC
1.	C. Lakshmi Pathi	M. Phil	S.K.University Anantapur	2013	Physical Studies Of Cyclohexane Liquid Crystals
2.	G. Aparna Devi	M. Phil	S.K.University Anantapur	2012	Thermoacoustic Studies in Alkenyl Liquid Crystalline Compounds
3.	H. Meenakshi	M.Phil.	Alagappa University	2007	Applications of Lasers in Medical Diagnosis
4.	P. Sudhakar	M.Phil.	Alagappa University	2008	On the Behavior of Thermoacoustic properties in Re-entrant Nematic Liquid crystals
5	P. Bhaktavatshalam	M.Phil.	Vinayaka Mission	2008	Physical Properties of Difluoro benzene Liquid

			University		Crystals
6	M. Prathap	M.Phil.	Vinayaka Mission University	2009	Physical Properties of Liquid Crystals

(B) NO. OF Ph. D'S AWARDED:

S.NO	NAME OF THE SCHOLAR	UNIVERSITY	YEAR	Title of the thesis
1.	V. Narsimulu	Bharathiar University, Coimbatore	January 2024	Thermodynamic, Spectroscopic and Refractometry Investigations on Molecular Interactions of Ionic Liquids ([EMIM][BF4]/ [BMIM][BF4]) with Amines (Aniline/ N-methyl aniline)

11. ADMINISTRATIVE RESPONSIBILITIES:

- ➤ BOS Member, Govt. College (Autonomous), Ananthapuramu.
- ➤ BOS Member, SSBN Degree College (Autonomous) Ananthapuramu.
- **BOS** Member, Ramakrishna Degree College (Autonomous), Nandyal.
- Academic Coordinator GDC, Uravakonda
- LMS Coordinator, GDC, Uravakonda
- Convener, Science Association, GDC, Uravakonda.
- Member Purchase Committee, GDC, Uravakonda.

SEMINARS/CONFERENCES PARTICIPATED

- 1. National Workshop on *Recent Advances in Liquid Crystals and the Liquid Crystal Displays* S.K.University, Anantapuramu 24-26, April 1999.
- 2. National Seminar on *Spectra-structure correlation*, S.K.University, Anantapuramu. 30-31, March 2001.
- 3. Multidisciplinary national seminar on *Atmospheric Sciences & Spectroscopic Techniques*, S.K.University Anantapuramu. 29-30, July 2003.
- 4. *Electronics Expo 2004*, Department of Electronics, S.K.University Anantapuramu. 12th December 2004.
- 5. *Electronics Expo 2005*, Department of Electronics, S.K.University Anantapuramu. 20th November 2005.
- 6. National Seminar on *Atmospheric Science*, Department of Physics, S.K.University Anantapuramu. 24-25 February 2006

- 7. *National Seminar* on *VLSI Design Trends and Tools*, Department of Electronics, S.K.University Anantapuramu. 19-20, March 2006.
- 8. National Seminar on "*Role of Chemistry in Emerging Areas of Biology and Industries*", Department of Chemistry, S.K.University, Anantapuramu. 24-25, March 2006
- 9. **National Workshop** on **Embedded Systems and Applications**.04-02-2007
- 10. **First International Workshop** on *Atmospheric Physics And Technology*, Yogi Vemena University, Kadapa 20-22, February 2008.
- 11. National Seminar on Modern Trends In Analytical Methods Of Analysis. 25-27, February 2008.
- 12. National Level Conference on Advances in Nano Materials, Devices and Technologies (NCANDT 2009), S.V. Degree College,11-12, July 2009.
- 14. Capacity Building Of Women Managers In Higher Education, S.V.University, Tirupati. 28-10-2009 to 01-11-2009.
- 15. **National Seminar** On **Emerging Materials And Technologies** (**EMT2010**), SSBN Degree &PG College, Anantapur.9-10 October 2010.
- 16. **Two-Day National Workshop** On **Environmental Pollution And Impacts On Public Health And Agriculture (EPPA)**, Department of Physics, S.K.University, Anantapuramu. 21-22 February, 2012.
- 17. Two Day National Conference On Facing Challenges on Climate Change Earth And Atmospheric Systems (FCCC-2012), Department of Physics, S.K.University, Anantapuramu, 30-31 October 2012.
- 18. **National Workshop on Radio Chemistry and Applications of Radioisotopes,** Indian Association of Nuclear Chemists and Allied Scientists, Department of Chemistry, SSBN Degree College, Anantapur. November 5th to 10th, 2012
- 19. **National Workshop on Statistical Tools for Physical and Social Sciences**, organized by Department of Statistics, S.S.B.N. Degree College, Anantapur, Feb 8-9, 2014.
- 20. **National Seminar on Rural Women-Inspiring Change,** organized by the Department of Women's Studies, Sept.26-27, 2014 S.K.University, Anantapuramu.
- 21. National Seminar on Recent Trends in Geo-Chemical Environmental Aspects of The Mineralization in Kadapa Basin, Oct 25-26, 2014, organized by Dept. Of Chemistry, Loyola Degree College (YSRR), Pulivendula.
- 22. National Conference on Recent Advances in Material Science (NCRAM-2014), Nov 1-2, 2014, organized by Dept. Of Physics Loyola Degree College (YSRR), Pulivendula.
- 23. International Conference on Frontiers in Nanoscience Technology and Applications (FINSTA), Dec 20-22, 2014, organized by the Department of Physics, Sri Satya Sai Institute of Higher Learning, Puttaparthy.
- 24. Workshop on Physics Experiments using EXPEYES, Aug 16, 2015, organized by Indian Institute of Science, Bengaluru.
- 25.National Webinar on "Material Science and Embedded Systems" organized by Dept. of Physics and Electronics, Govt. Degree College(A), Anantapuramu on 22-07-2022.
- 26. One Day Workshop on "NAAC Revised Accreditation Frame Work" organized by NAAC Coordination Committee, Dr. LHR Govt. Degree College, Mylavaramu, Krishna Dist. On 17-09-2022.
- 27. 5 Day Training Program for Teacher's on "Sola Energy Content Development and Assessment Methods" (TOT), organized by CCE, A.P. Vijayawada from 10-08-2022 to 14-08-2022.

- 28. One Week Online FDP on "Recent Advances on Material Characterization" organized by Krishna University, Machilipatnam, from 29-08-2022 to 03-09-2022.
- 29. Seven Day Online Workshop on "The Seven assessment Criteria for NAAC Accreditation" organized by IQAC, S.K.B.R. Govt. Degree College for Women, Macherla, Guntur Dist. from 21-02-2022 to 28-02-2022.
- 30.. One Week Online Faculty Development Program on "Recent Trends in Nanotechnology & Signal Processing" Organized by the Department of Electronics and Communication Engineering, GMR Institute of Technology, Rajam, AP, India, during 23rd -29th August, 2021.
- 31. IP Awareness/Training program under National Intellectual Property Awareness Mission on March 15, 2022. Organized by Intellectual Property Office, India.
- 32. Three-Day National Webinar on 'Project/ Research Synopsis and Proposal Writing' organized by ALC-ELT CENTER and Department of English, Andhra Loyola College, Vijayawada from 23-05-2022 to 25-05-2022.
