

# **Maris Stella College (Autonomous), Vijayawada**

## **Department of Physics**

### **Profile of Dr. Pothula Jaya Prada**

**Name:** Dr. Pothula Jaya Prada

**Educational Qualifications:** M.Sc., B.Ed., Ph.D.

**Designation:** Lecturer in Physics

**Date of joining Maris Stella:** 01-06-2023

**Years of experience in Maris Stella:** 7 months

Total Experience : 12.7

Maris Stella College : Email [jayapradap16@gmail.com](mailto:jayapradap16@gmail.com)

Contact No : 8688710150

Languages Known : English, Telugu, Hindi

Areas of Interest : Materials Science, Modern Physics,  
Solid State Physics.



#### **EXPERIENCES IN OTHER INSTITUTIONS:**

1. Worked as a lecturer in Physics in Diviseema Polytechnic College ,Avanigadda, for the academic year 2010-2012.

2. Worked as a lecturer in Physics in Sri.Bala Sai Degree College, Machilipatnam for the academic year 2012-2013

3. Worked as a lecturer in Physics in Sri.Vasavi Institute of Engineering and Technology .Nandamuru Pedana , for the academic year 2013-2017

4. Worked as a Contractual Post Graduate teacher in Kendriya Vidyalaya Machilipatnam, for the accademic year 2017-2018.

5. Worked as lecturer in Physics in Sri.Vijayananda Degree College, Machilipatnam for the academic year 2019-2020

6. Worked as Lecturer in Physics in Andhra Loyola College , Vijayawada for the accademic year 2021-2022

**Academic Contribution:**Preparation of Model Question Papers

#### **WORKSHOPS/FDPS/TRAINING PROGRAMS:**

1. Participated in Five Days faculty developmnt Program on Recent Trends and Challenges in Nanomaterials Characterization Techniques organized by department of Physicson 25-29 September 2023 Koneru Lakshmaiah Education Foundation Guntur-522302 Guntur , Andhra Pradesh,India.
2. Participated ina Three day Indian national academics lecturer workshopon Physics Behind smart Materials , organized by department of Physics Andhra Loyola College 28-30 March 2022.
3. Participated in U.G.C sponsored one day National webinar on“Medical Physics in Cancer care and Radaiation Protection ” Organized by Dept. arts and science Krishna University 18 september 2021.

#### **SEMINARS /CONFERENCES (NATIONAL/INTERNATIONAL) ATTENDED**

1. Participated in UGC sponsored two day national seminar on Interface of allied Science Technology on Life science conducted by the dept of Bio sciences &Bio technology Krishna University Machilipatnam 28-29 february 2020 .
- 2.Participated in U.G.C sponsored two day National seminar on “*Advances in synthesis of Nano materials and their Multidimensional applications in chemical & biosciences*” Organized by Dept. of Bio-Chemistry and Dept. of Chemistry, Andhra Loyola college Vijayawada, A.P., India 14-15 September 2015 .
- 3.Participated U.G.C sponsored two day National seminar on “*Characterization Techniques of Materials*” organized by the Dept.of Nanotechnology, Acharya Nagarjuna University,Nagarjuna Nagar,Guntur, A. P., India. 28-29 March 2016
- 4.Participated U.G.C sponsored two day National seminar on “*Need and Role of Nano Sciences in the present Era*” organized by the Department of Electronics, in P.B. Siddhartha College, Vijayawada, A.P., India, 7-8 October 2016
- 5.Participated in U.G.C sponsored two day National seminar on “*Trends and applications of Liquid Crystals*” organized by the Dept. of Physics, A .C College, Guntur, A.p, India 10-11 September 2015
- 6.Participated in U.G.C sponsored two day National seminar on “*Emerging Trends in Physics*”.Organized by Dept. of Physics, S.V.R.M. College Nagaram, 7-8 August 2015
- 7.Participated in UGC sponsored two day National seminar on Empowerment of Youth –Preparing for future organized jointly by Rajiv Gandhi National Institute of youth Developemnt organized by P.B Siddharatha College of Arts and Science 19-20 March 2015.
- 8.Participated in UGC sponsored two day National seminar on “*Multifunctional materials Synthesis and Applications*” organized by the Dept. of Physics, The Hindu College, Machilipatnam,. 24-25 january 2015.

#### **PAPER PRESENTATIONS IN NATIONAL/INTERNATIONAL CONFERANCES**

1. Presented a paper in DST sponsored national conference on Liquid crystals organized by

- department of physics, Andhrauniversity Vishakapatnam 2-4 November 2023
2. Presented a paper in UGC sponsored two day national seminar on Recent Trends in Nanoscience and Nanotechnology organized by the department of nanotechnology Acharya Nagarjuna University, January 30-31 2020
  3. Presented a paper in International conference on Nanoscience and Nanotechnology organized by the department of physics & Nanotechnology SRM university Chennai ,28-30 january.2019.
  4. Presented a paper in International conference on Applied Science and Technology organized by SRKR Engineering college Bhimavaram , 24-25 january 2018
  5. Presented a the paper in UGC sponsored two day national seminar on Renewable and Non renewable energy sources organized by the dept of physics in A.N.R college Guduwada 22-23 january 2018.
  6. Presented a paper in UGC sponsored two day national seminar on Recent trends in chemical speciation kinetics and nanomaterials conducted by the department of inorganic and analytical Chemistry at vishakapatnam Andhra University, March 3-4 2017.
  7. Presented the poster on in 2<sup>ND</sup> A.P Science Congress on “*Science and Technology For Health*” held at P.B Siddhartha College of Arts and Science, Vijayawada organized by Andhra Pradesh Academy of Sciences, Amaravathi Association with Dr. N.T.R University of Health, Acharya Nagarjuna University Krishna University, 14-15 september 2016.

#### **PATENTS/ AWARDS**

1. Development of Zinc oxide nanoparticles induced liquid crystals for display device application  
M.Ramakrishna Nanchara Rao, P.Jayaprada, B.T.P.Madhav, P.Pardhasaradhi, M.C.Rao
2. Best paper Presentation Award in U.G.C sponsored two day National seminar on “*Characterization Techniques of Materials*” organized by the Dept.of Nanotechnology, Acharya Nagarjuna University, January 30-31 2020, Nagarjuna, Nagar, Guntur, A. P., India

#### **RESEARCH PUBLICATIONS:**

1. Structural and optical studies on TiO<sub>2</sub> doped ZnCdO nanocomposites for optoelectronic devices  
M. Seshu Kumar , P. Jayaprada , R.V.S.S.N. Ravikumar and M.C. Rao Vol no. 90(3),pp1-7,2023
2. Spectral optical and birefringence studies of ZnO dispersed 100.0nm LC compounds for display device application, P. Jayaprada, Rknr Manepalli, B.T.P. Madhav, P. Pardhasaradhi, M.C. Rao Vol no. 90(2),pp1-13,2023.
3. Optical and Spectral Properties of dispersed ZnO P-n Octyloxy Benzoic acid Liquid crystalline Compounds K. Sajini, P.Jayaprada, P. Pardhasaradhi, B.T.P. Madhav, DRSRRM M.C. Rao, Journal Of applied Spectroscopy Vol no. 89(3),pp:435-455,2023.
4. Studies on birefringence, order parameter and image analysis of liquid crystalline p-n butyloxy/butyl benzoic acid with dispersed ZnO nanoparticles P.Jayaprada P. Pardhasaradhi, B. T. P. Madhav, K.Krishna Redy D.Ramasekhara reddy G. Giridhar, M. C. Rao, R. K. N.R. Manepalli Z.Naturforsch Doi 10.1515/Zna-2020-0198 2021.
5. Optical Properties of Liquid Crystalline Alkoxy Benzoic Acids with Dispersed Citrate-Capped Gold Nanoparticles, M. Tejaswi, P. Pardhasaradhi, B.T.P. Madhav, K. Pandian, **P. Jayaprada**, R.K.N.R. Manepalli and V.G.K.M.Pisipati Z.Naturforsch, 2020 <https://doi.org/10.1515/zna-2019-0100>.

6. **P. Jayaprada**, P. Pardhasaradhi, B. T. P. Madhav, G. Giridhar, M. C. Rao, R. K. N.R. Manepalli & V. G. K. M. Pisipati, Effect of ZnO nanoparticles dispersed in liquid crystalline p-n-propoxy/propyl benzoic acids and mixtures – optical studies Vol. 689, No. 1, pp. 10–33, 2019.  
<https://doi.org/10.1080/15421406.2019.1670942>.
7. Optical studies of n-octyloxy-cyanobiphenyl (8ocb) with dispersed ZnO nanoparticles for display device application **P. Jayaprada**, M.C. Rao, P. Pardhasaradhi, P.V. Datta Prasad, R.K.N.R. Manepalli\*, V.G.K.M. Pisipati Optik - International Journal for Light and Electron Optics Vol 185, pp.1226-1237, 2019. <https://doi.org/10.1016/j.ijleo.2019.04.060>.
8. Influence of ZnO of nanoparticles dispersion in Liquid Crystalline compounds- Experimental Studies. R.K.N.R. Manepalli, G.Giridhar, P.Pardhasaradhi, **P. Jayaprada**, M. Tejaswi, K. Sivaram, Ch. Mohana kumar & V. G. K. M. Pisipati, Materials Today: Proceedings, 5, pp.2666–2676, 2018.
9. Effect of ZnO Nanoparticles Dispersed in Liquid Crystalline Alkoxy Benzoic Acids and Periodic Noise Reduction Using Frequency Domain Filtering, RKNR Manepalli, **P. Jayaprada**, MC Rao, BTP Madhav, and K. Pandian (2017) RJPBCS, Vol 8(1), pp.2335-2345, 2017.
10. Characterisation and mesomorphic behaviour of liquid crystals with dispersed PdCl<sub>2</sub> nanoparticles R. K. N. R. Manepalli, B. T. P. Madhav, G. Giridhar, M. Srinivasulu, M. Tejaswi, K. Sivaram, **P. Jayaprada** & V. G. K. M. Pisipati, Liquid Crystals Today 26(2), pp.32-38, 2017.
11. Synthesis and Characterisation of Schiff base Liquid Crystals with dispersed ZnO nanoparticles - Optical Studies, **P. Jayaprada**, M. Tejaswi, G. Giridhar, MC Rao, VGKM Pisipati and RKNR Manepalli Rasayan Journal of Chem (RJC), 9(4), pp.588-596, 2016.
12. Synthesis, characterization and textural analysis to reduce the multiplicative noise in nano dispersed liquid crystalline compounds using HF technique.. Manepalli, R. K. N.R., Pardhasaradhi, P., Madhav, B. T. **P., Jayaprada**, P.Pardhasaradhi, Pisipati, V. G. K. M, International journal of earth Science and Engineering Vol 9(1), PP:25-28, 2016



