



PITHAPUR RAJAH'S GOVERNMENT COLLEGE(A)
KAKINADA



Dr. KANTA JAYADEV

M.Sc., M.Phil., AP SET., Ph.D.

Lecturer in Physics

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Educational Qualifications

Ø **Ph.D. in Physics** (Part-Time) (Dec 2021), Andhra University, Visakhapatnam, India with the Thesis entitled “Structural, magnetic and DC electrical resistivity properties of

Co, Mg, Al substituted NiCu-Zn nano ferrites” under the supervision of Prof. K. Samatha

Ø **M.Sc. (PHYSICS)** with specialization in Electronics with an aggregate of 61% from Andhra University in the year 1997.

Ø **B.Sc.** (Mathematics, Physics, Electronics) with an aggregate of 63% from Andhra University in 1995.

Ø **Intermediate** with an aggregate of 69% from Board of Intermediate Education, A.P. in 1991.

Ø **S.S.C** with an aggregate of 74% from Board of Secondary Education, A.P in 1989

Teaching Experience

Ø Currently working as Assistant Professor of Physics from September 2015 to till date and also HOD of Mathematics Department, P.R. Government College(A), Kakinada from September 2023 onwards.

Ø Got Promotion as Degree college Lecturer in the year 2013 and Worked as Assistant Professor in Physics, Department of Physics, VKV Government Degree College, Kothapeta, from May 2013 September 2015.

Ø Worked as Junior Lecturer in Physics in P.R. Government Junior College(Boys), Kakinada from June 2011 to May 2013

Ø Selected as Junior Lecturer in Physics by APPSC in December 2004 and worked as Junior Lecturer in Physics in Government Junior College, Kajuluru from December 2004 to June 2011

Strengths & capabilities

Ø Good inter-personal and hard working skills.

Ø Good computer skills – MS-Office,

Ø Utilization of ICT tools

Research Interests

Solid State Physics

Materials Science

Spectroscopy

Anode, Cathode, Electrolyte and Getter Materials and

Lithium-ion Batteries

Refresher Courses/Orientation Programs attended

Ø Participated in Two Week Refresher course in Experimental Physics in association with Science Academy from 27 May 2014 to 11 June 2014 at Government College(A), Rajahmundry

Ø Participated in 28 days UGC sponsored Orientation Program from 08-05-2017 to 03-06-2017 at JNTUH, Hyderabad and Obtained 'A' grade

Ø Participated in Two month ANO training programme at Air Force Station Tambaram, Chennai From 3rd October 2017 to 2nd December, 2017.

Ø Participated in 28 days refresher course in ANO training programme at Air Force Station Tambaram, Chennai From 3rd June to 30th June 2024.

FDPs Participated

Ø Participated in 5 day residential training program for teachers on content delivery and assessment methods at AU, HRDC, Visakhapatnam from 7th December, 2022 to 11th December 2022.

Ø Participated Three day TOT in internship/ apprenticeship At PR Government College Kakinada from 5th January, 2023 to 7th January, 2023.

Ø Participated in 6 day Faculty development program on English medium of instruction proficiency in English at PR Government College Kakinada organised by Commissionerate of college education from 12th June, 2023 to 17 June 2023.

Ø Participated in 5 day Microsoft diversity skilling program Sponsored by Andhra Pradesh Information Technology Academy. From. 18th December 2023 to 22 December 2023.

Ø Participated UGC sponsored Online short term course Organised by UGC Malaviya mission teacher training centre Osmania University, Hyderabad. From. From 25 11 2024. to 30 11 2024.

Ø Participated 5 day training program in National Institute of disaster management at Vijayawada From 12 February 2024 to 16th February 2024.

Ø Participated in 10 day Malaviya mission teacher training programme on NEP 2020 orientation and sensitization organized by UGC MMTTC Maulana Azad National Urdu University, Hyderabad from 4th March, 2024 to 13th March 2024.

Ø Participated in One week national level Online faculty development programme Organised by Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata from 14th December 2023 to 20th December. 2023

Ø Participated in Five day faculty Development programme on hybrid and blended learning organized by YVNR Govt Degree College Kaikaluru. From. 21st February 2022 to 25th February 2022.

Ø Participated in One week international online faculty development program on innovations in high performance materials for sustainable energy and environmental impacts organized by BVRIT Hyderabad College of engineering for women From 29th April 2024 to 4th may 2024.

Ø Participated. 6 days national level. Virtual faculty development program on pedagogical transition in higher education- a paradigm shift organized by Shri Arabindo College, Bangalore from 18th April 2022. to 23rd April 2022.

Participated Seminars & Conferences

Ø Participated in Two day international conference on advances in physics electronics and chemical sciences 2020 And presented a paper at Sir CR Reddy College, Eluru, Andhra Pradesh from 27th February 2020 28th February 2020.

Ø Participated in Two day international conference on Environmental challenges and remedies for sustainable future and presented a paper at Govt College Rajahmundry, Andhra Pradesh from 15th September 2023 to 16th September 2023

Ø Participated in One day international conference on New Frontiers of Luminescent advanced materials and phosphorus in multidisciplinary technologies, In Pithapur Rajahs Govt College(A),Kakinada, Andhra Pradesh On 7th January, 2022.

Ø Participated in One week international online faculty development program on multidisciplinary approach in research methodology organized by Sri Y.N. College(A), Narsapur from 11th September 2023 to 17 September 2023.

Ø Participated in one week International Workshop on Shape your future share not your ideas Organized by Govt degree College Avanigadda from 21st march 2022 to 26th march 2022

Ø Participated in 5 Day National Webinar on Pathways to discovery And innovation: Nurturing researchers for tomorrow (PDINR-2024) organized by Pitapur Rajah's Govt College Kakinada From 25th April 2024 to 30th April 2024

Ø Participated in 2 day faculty development programme On capacity building of faculty. In a blended teaching Learning environment, a practical approach organized by Pithapur Rajah's Govt College(A) Kakinada from 21st April 2022 to 22 April 2022

Ø Participated in 28th day Refresher course for ANO faculty at Air Force Station Tambaram. From 3rd June 2024 to 30th June 2024.

Ø Participated in One week Online faculty development program on Innovative trends in designing materials and mathematical modelling for sustainable development organized by Department of physics chemistry and mathematics, Vivekananda arts and Science College for women, Tamil Nadu. From. 27 January 2025 to 31 January 2025.

List Of Publications

Ø K. Jayadev, N. Murali, K. Samatha "Structural, and magnetic properties of $\text{Ni}_{0.4-x}\text{Co}_x\text{Cu}_{0.2}\text{Zn}_{0.4}\text{Fe}_2\text{O}_4$ ferrite nanoparticles" Journal of Emerging Technologies and Innovative Research (JETIR) March 2019, Volume 6, Issue 3

Ø P. Himakar · K. Jayadev · D. Parajuli · N. Murali · Paulos Taddesse³ · S Yonatan Mulushoa Tulu Wegayehu Mammo · B. Kishore Babu · V. Veeraiah · K. Samatha “Effect of Cu substitution on the structural, magnetic, and dc electrical resistivity response of Co_{0.5}Mg_{0.5-x}Cu_xFe₂O₄ Nano ferrites” Applied Physics A (2021) 127:371

Ø K. Jayadev* , B Madhavalatha , D Parajuli , Ch. Komali, N Murali *, V Veeraiah , K Samatha “ Effect of Cu Substitution on Magnetic Properties of Co_{0.6}Ni_{0.4}Fe₂O₄ Nanoferrites” Biointerface research in Applied Chemistry Volume 12, Issue 2, 2022, 1899 – 1906

Ø The Heartbeat Science: Unravelling the Mechanics of Cardiac Pumping in Humans and Animals, Dr.M. Surekha , Dr.K. Jayadev , G. Sridevi , A. Padmavathi , Dr.P. Himakar , Dr.K.Durga Rao and Dr.Somarouthu V.G.V.A.Prasad, ALOCHANA JOURNAL(ISSN NO:2231-6329), VOLUME 13 ISSUE 6 2024.

Books/ Book Chapters Published

Ø Text Book of Physics Infinite Research- ISBN 978-81972819-7-6

Ø Sustainable Materials Design: Novel Methodologies for Eco-Friendly Innovation, Dr.M.Surekha, Dr.K.Jayadev , G.Sridevi, Dr.P.Himakar, Dr.K.Durgarao & A.Padmavathi*, Presentation at RESEARCH METHODOLOGY IN MATERIAL SCIENCE- 2025,Kaikaluru, ISBN: 978-93 90028-56-6, Chapter 22, Jan-2025.

Ø Biomedical Applications of Physico-Chemical Nanomaterials: Recent Advances and Future Perspectives, A. Padmavathi¹, Dr K.. Jayadev ¹, Dr P. Himakar¹, Dr K. Durgarao¹ & Dr. Somarouthu V. G. V. A. Prasad^{1*}, TWO DAY NATIONAL SEMINAR IDEAL COLLEGE,KKD, ISBN: 978-93-92760-68-6, Sl.No-10, 28-29 MARCH-2025.

Ø Nano Structured Glass and Ceramic Composites: Future directions in Hydrogen Energy Storage, Dr. K. Jayadev, V. Sanjeev Kumar, V. Rambabu, P.B.Sandhya Sri and Somarothu V G V A Prasad, Nanotechnology Perceptions ISSN No: 1660-6795 Vol 20 Issue Oct 2024

Ø Advancements in ferrite materials for enhanced Renewable Energy Technologies, Dr. K. Jayadev and Dr. Somarothu V G V A Prasad, Proceedings of International conference SMART MATERIALS & ADVANCED APPLICATIONS 2025 Govt Degree College, Mandapeta, ISBN :978-93-92760-55-6

Ø Creating Change: The Path to Womens Empowerment, Ms.G. Sridevi, Dr. K.Jayadev, Dr. P. Himakar, Dr. K. Durga Rao, P. Veerendra, D. Sravani and N. Kalpana Proceedings of Two

day International Women leadership conclave SPREADING THE WINGS OF 21 CENTURY WOMEN, Pithapur Rajahs Government College(A), Kakinada ISBN : 978-93-92760-21-1

Achievements:

- Ø Selected as Junior Lecturer in Physics conducted by Andhra Pradesh Public Service Commission in 2004
- Ø Qualified for Andhra Pradesh State level Eligibility Test APSET in July 2012.
- Ø Got promotion as Asst. Prof. of Physics in the year May 2013
- Ø Received BEST ASSOCIATE NCC OFFICER (ANO) in 2019 by Gr. Commander, Kakinada Group.
- Ø Achieved Ph.D from Andhra University in the year 2021

Professional Achievements

- Ø HOD of Department of Electronics from 2021 - 22
- Ø HOD of Department of Mathematics from 2023 to till date
- Ø Associate NCC Officer from 2017 to till date
- Ø Deputy Controller of Examinations from 2021 - 23
- Ø Dean, School of Mathematics in the year 2024

Personal Details

Name : Dr. Kanta Jayadev

Father's Name : K. Kali Charan Das

Date of Birth & Age : 10/08/1973

Sex : Male

Marital Status : Married

Languages known : Telugu, English, Hindi

Nationality : Indian

Permanent Address : Dr. Kanta Jayadev

S/o K. Kali Charan Das(Late)

F.No. 501, Navya Bhavya Apartments

Sidhartha Nagar, Kakinada ,Andhra Pradesh – 533003.