



# P R GOVT COLLEGE (A), KAKINADA

DEPARTMENT OF PHYSICS & ELECTRONICS

## CURRICULUM VITAE



**Dr.K.DURGA RAO M.Sc, Ph.D.,**

**CONT.LECTURER IN PHYSICS**

**9490388113**

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**Ph.D. in Physics (18-12-2023) at Sun Rise University, Alwar, India**

**Thesis entitled with "RESEARCH STUDY ON THE SIGNIFICANCE OF FLAWS IN OXIDENANO PARTICLES UNCONVENTIONAL MAGNETIC PROPERTIES", under the supervision of Prof. P.Veeresh Kumar.9694462695**

**Post Gradation:** M., Sc., Physics in April 2000 from Andhra University, Visakhapatnam 60.6%

**Graduation:** B.Sc., Mathematics, Physics with Electronics in March 1998, from govt arts college rajahamundry 68.6%

**Intermediate:** Mathematics, Physics with Chemistry in March 1995, from Govt Junior College, Kovvur, Board of Intermediate Education, Hyderabad, Andhra Pradesh with 71.6%

**SSC:** Secondary School Certificate in March 1993 from ZP High School, Gowripatnam, Devarapalli mandal, West Godavari, Andhra Pradesh with 67.3%

### **Teaching experience:**

1. Worked as a Lecturer in physics at C.S.T.S Government degree college, Ingareddigudem from 23-06-2001 to 31-03-2008.
2. Worked as a Lecturer in physics at Government degree college, Eluru from 02-06-2008 to 31-03-2013.

3. Worked as a Lecturer in physics at SAS Government degree college, Narayanapuram from 23-01-2014 to 31-03-2016.
4. Worked as a Lecturer in physics at CHVPMR Government degree college, Ganapavaram from 23-06-2016 to 08-10-2021.
5. Worked as a Lecturer in physics at P.R Government college (A), Kakinada from 20-10-2021 to till now

#### **No. of Faculty Induction/ Develop Programme attended: 09**

- Participated in Three Days ToT on Internship/Apprenticeship Management and LMS held at NRC,PRGC(A0,KKD from **06 February 2023 to 08 February 2023**.
- Participated in the 6 Day ToT programme on **English Medium of Instruction in English** from **12.06. 2023 to 17.06.2023** at P.R.Govt College(A),Kakinada.

#### **No. of Webinars/ Seminars attended: 05**

- Participated in the Five Day National Webinar on **Pathways to Discovery and Innovation: Nurturing Researchers for Tomorrow** organized by Pithapur Rajah's Govt College(A),Kakinada, from 25 April-2024 to 30 April-2024.

#### **Publications / Presentations:**

- **Exploring Defect-Induced Anomalies in Oxide Nanoparticles' Magnetic Behavior Kakarla Durga Rao<sup>1</sup> , Dr. Veeresh Kumar<sup>2</sup>** <sup>1</sup>Research Scholar , <sup>2</sup>Research Guide Department of Physics, Sunrise University, Alwar, Rajasthan International Journal of Research Publication and Reviews, Vol 4, no 8, pp 2694-2697, ISSN 2582-7421, August 2023
- **Impact of Structural Flaws on Magnetic Characteristics of Oxide Nanoparticles Kakarla Durga Rao<sup>1</sup> , Dr. veeresh kumar<sup>2</sup>** <sup>1</sup>Research Scholar , <sup>2</sup>Research Guide Department of Physics ,Sunrise University, Alwar, Rajasthan International Journal of Research Publication and Reviews, Vol 4, no 8, pp 2683-2686, ISSN 2582-7421 , August 2023
- Optimization of Tidal Wave Power Generation: A Review of IoT-Enabled Solutions, **A.Padmavathi** , Dr.K.Durga Rao and Dr.Somarouthu V.G.V.A.Prasad, Journal of Systems Engineering and Electronics, (ISSN NO:1671-1793),May-2024.

- Microwave Absorbers and Ferrites: A Comprehensive Review, **A.Padmavathi** , Dr.K.Durga Rao and Dr.Somarouthu V.G.V.A.Prasad, KRONIKA JOURNAL,(ISSN NO: 0023-4923), VOLUME 24 ISSUE 6 2024 .
- 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.
- Unlocking Agricultural Potential: A Comprehensive Analysis of IOT Based Farming and Plantation Management, Somarouthu V.G.V.A.Prasad, **A.Padmavathi** and K.Durga Rao, Greenari A An AGRICULTURAL MONTHLY e- MAGZINE(ISSN:NO2584-153X), VOLUME02,Issue 06,2024.
- Powering Future: Renewable Energy Applications in Aquaculture System, B.Chakravarthi,M.VasanthaLakshmi,M.Surekha,**A.Padmavathi**,K.Durgarao,S. V.GV.A.Prasad, OEIL RESEARCH JOURNAL(ISSN NO: 0029-862X) VOLUME22,Issue 11,2024.
- 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.
- Biomedical Applications of Physico-Chemical Nanomaterials: Recent Advances and Future Perspectives, **A. Padmavathi**1, Dr K.. Jayadev 1, Dr P. Himakar1, Dr K. Durgarao1 & Dr. Somarouthu V. G. V. A. Prasad1\*, TWO DAY NATIONAL SEMINAR IDEAL COLLEGE,KKD, ISBN: 978-93-92760-68-6, Sl.No-10, 28-29 MARCH-2025.
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**One day International Conference Organized and Participated:** Luminescent Advanced materials & Phosphors in multi disciplinary technologies (LAMP-2022) conducted on 7<sup>th</sup> January 2022, at P.R. Government College (A), Kakinada.

#### PERSONAL PROFILE:

**Name:** Dr.K.DURGA RAO M.Sc, Ph.D.,

**Fathers Name:** K. VENKATA RAO

**Date of Birth:** 12-02-1977

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