

## **CURRICULUM VITAE**



**Dr. Shivaprasad Chalawadi,**

**M.Sc Physics, Ph.D., CSIR-UGC NET (2TIMES), JRF, SRF, KSET & GATE**

**Assistant Professor, Department of Physics,**

**Vijayanagar College Hosapet-583201**

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### **Objectives:**

To establish myself in the field of education, to utilize my Skills and Experience to help students to Achieve High Improvements in Academics

### **Ph.D.:**

“Preparation and Characterization of Polymer-based Nanocomposites for Sensor Applications” under the guidance of **Dr. Rajashekhar F. Bhjantri**, Senior Professor, awarded on 12-03-2025 from **P.G. Dept. of Studies in Physics, Karnatak University Dharwad (KUD)**

### **National Entrance and State Entrance Test:**

1. Qualified JOINT CSIR-UGC TEST ELIGIBILITY FOR **LECTURESHIP (NET) 2017** WITH ALL INDIA RANK **175**.
2. Qualified JOINT CSIR-UGC TEST FOR **J.R.F** AND ELIGIBILITY FOR **LECTURESHIP (NET) 2016** WITH ALL INDIA RANK **252**.
3. Qualified the Karnataka State Eligibility Test (**KSET**) for Lecturer / Assistant Professorship held on 11<sup>th</sup> December 2016.
4. Qualified Graduate Aptitude Test in Engineering (**GATE**) 2017.

### **Guest of Honors:**

1. Invited speaker for the Special Lecture organized by the Photon association on the topic **“One Day Training Programme on Preparation for NET/SET Examination”** on **11/06/2022** at Vijayanagara Sri Krishnadevaraya University Ballari-583105.
2. Resource person on the event of **National Science Day -2021(Theme: “Future of STI: Impact on Education Skills & Work”)** organized by, Science association, on **01/03/2021** at K.R.C.E.S Degree College Bailhongal 591102.
3. Special lecture on **“How to crack CSIR-UGC NET and SET Examination in Physical Sciences”** Organized by VSK University Ballari-583105 on **13/05/2020**.
4. Special Lecture on **Celebration of National Science Day 2019-20 Theme: “Women in Science”** Organized by Government First Grade College, Haliyal on **28/02/2020**.

### **Research Experience:**

1. Worked as a **Senior Research Fellow (SRF)** in Dept of Studies Physics, Karnatak University Dharwad 02/12/2019 to 31/11/2022.
2. Worked as a **Junior Research Fellow (JRF)** in Dept of Studies Physics, Karnatak University Dharwad 02/12/2017 to 01/12/2019.

### **Teaching Experience:**

1. Presently working as a **Assistant Professor, V. V Sangha Bellary, Dept of Physics, Vijayanagar College Hosapet-583201.**
2. Worked as a **Teaching Assistant in P.G. Dept. of Studies in Physics, Karnatak University Dharwad (KUD)** from 12/11/2024 to 31/03/2025, 02/04/2025 to 17/05/2025.
3. Worked as a **Teaching Assistant in P.G. Dept. of Studies in Physics, Karnatak University Dharwad (KUD)** from 25/11/2023 to 31/03/2024, 02/04/2024 to 05/09/2024.
4. Worked as a **Teaching Assistant in P.G. Dept. of Studies in Physics, Karnatak University Dharwad (KUD)** from 21/08/2017 to 14/07/2018.
5. Worked as a **Guest Faculty at Government First Grade College, Dharwad.**
6. Worked as a **Guest Faculty at Government First Grade College, kalghatgi.**
7. Worked as a **Lecturer in Physics at Alva’s PU College Moodbidri** from 08/06/2015 to 31/03/2016.

## Academic Qualifications:

Course	Name of the institution	University	Year of passing	Percentage
Ph.D. Course Work	Dept of Studies in Physics Karnatak University Dharwad	KARNATAK UNIVERSITY DHARWAD	2019	77.72%
M.Sc. PHYSICS	Alva's College Moodbidri	MANGALORE UNIVERSITY	2015	70.48%
B.Sc.	K.R.C.E.S, G.G.D Arts B.M.P Commerce &S.V.S Science Degree College Bailhongal	RANI CHANNAMMA UNIVERSITY BELGAUM	2013	81.625%

## Refresher courses/Prizes:

1. Participated in Science Academies Refresher Course on “**Frontiers of Theoretical Physics**” Sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Prayagraj, Organized by Physics Department, Assam Don Bosco University, Assam from 01-16 February, 2021.
2. Participated in Science Academies Refresher Course in “**Quantum Mechanics & Nuclear Physics**” 15 April to 30 April, 2016 Sponsored by Indian Academy of Sciences, Bangalore. Indian National Science Academy, New Delhi. The National Academy of Sciences, India, Allahabad. In collaboration with Dayanand Science College, Latur.
3. Secured the **FIRST** place in **SCIENCE MODEL** competition, **PHYSICA-2K15** conducted by Physics Department, Mangalore University.
4. Secured the **SECOND** place in **SCIENCE MODEL** competition, **Phoenix-2015** conducted by St. Philomena College Puttur.
5. Bagged **THIRD PRIZE** at UGC Sponsored Two-Day National Seminar on “**Energy Crisis : Possible Solutions**” organized by Department of Physics, K.L.E. Society's Basavaprabhu Kore College, Chikkodi on February, 2013

## List of Publications:

### A. Publications in International Journals

1. Synthesis of CuO/polyaniline/multiwalled carbon nanotube composites using *Macaranga indica* leaves extract as hydrogen gas sensor **Shivaprasad Chalawadi**, Malatesh S. Pujar, Rajashekhar F. Bhajantri. *Biointerphases* 19, 011002 (2024) <https://doi.org/10.1116/6.0003282>
2. Robust and conductive ultrathin PVA-PEDOT:PSS films: achieving thermal and mechanical stability for shear sensor applications **Shivaprasad Chalawadi**, Satyappa Kalliguddi, Veda Gudihal, Malatesh S. Pujar, Rajashekhar F. Bhajantri *Polymer Bulletin* <https://doi.org/10.1007/s00289-025-05812-5>
3. Physico-chemical properties of PVA-Nile blue (C<sub>20</sub>H<sub>20</sub>C<sub>1</sub>N<sub>3</sub>O) Polymer Composite Structures for  $\gamma$ -ray Protection: A comparative  $\gamma$ -ray irradiation Studies Chandrappa H, Rajashekhar F Bhajantri, Mahantesha B K, Ravindrachary V, **Shivaprasad Chalawadi**. *Radiat. Phys. Chem.* 185(2021)109481, DOI: <https://doi.org/10.1016/j.radphyschem.2021.109481>.
4. The effect of ZIF-8 nanoparticle concentration on microwave-assisted synthesis of poly(vinyl alcohol)-*co*-acrylic acid copolymeric membranes and their potential application in fuel cell Mallikarjunagouda B. Patil, Shivalila G. Vader, S. N. Mathad, Arun Y. Patil, **Shivaprasad Chalawadi**, Rajashekhar F. Bhajantri 2023 Emergent Materials <https://doi.org/10.1007/s42247-023-00497-w>
5. **Effect of calcination temperature on synthesized ZnO nanoparticles** Chavan Chetan, Rajashekhar F. Bhajantri, Bulla Soumya, **Chalawadi Shivaprasad**, Anandhalli Maliakarjun, and Kalliguddi Satyappa AIP Conference Proceedings **2244**, 070015 (2020); <https://doi.org/10.1063/5.0009107>
6. **Optical properties of neutron irradiated PMMA doped methyl red** Soumya S. Bulla, Rajashekara F. Bhajantri, Chetan Chavan, **Shivaprasad Chalawadi**, Mallikarjun Anandhalli, and Satyappa Kalliguddi AIP Conference Proceedings **2244**, 090004 (2020); <https://doi.org/10.1063/5.0009329>
7. Mechanical and thermal studies of brilliant green dye doped poly(vinyl alcohol) polymer composite Mallikarjun H. Anandalli, R. F. Bhajantri, Sunil G. Rathod, T. M.

Kanakaraj, Chetan Chavan, and **ShivaprasadChalawadi**. AIP Conference Proceedings **2115**, 030222 (2019); <https://doi.org/10.1063/1.511306>

8. Fabrication and Characterization of TiO<sub>2</sub> doped Na-Tungstate (Heteropolyacid):Evaluation of Hall voltage across electrical conductor **Shivaprasad Chalawadi**, Satyappa Kalliguddi, Malatesh S. Pujar, Mallikarjunagouda B Patil, Rajashekhar F. Bhajantri2024 International Journal of Innovative Research in Technology IJIRT Volume11 Issue4 ISSN: 2349-6002<https://ijirt.org/Article/manuscript=167839>

### **B. Presentation at National/International conference**

9. “Enhanced Dielectric properties of LiClO<sub>4</sub> based PVA/Cellulose Stretchable composites”**Shivaprasad Chalawadi**, R. F. Bhajantri, Sunil G. Rathod, Chetan Chavan, Mallikarjun Anandalli,SatyappaKalliguddi, International conference on Physics Of Materials & Nanotechnology (**ICPN 2019**) held at Mangalore University during September 19-21, 2019.
10. “Optical and electrical properties of Polyaniline Grafted Pullulan-Chitosan Blend” **ShivaprasadChalawadi**,R. F. Bhajantri, Mallikarjun Anandalli,Chetan Chavan, Soumya Bulla, SatyappaKalliguddi in the International conference on Advanced materials Science and Applications (**ICASMA-2020**) organized by the Department of physics and IQAC of RAMAIAH INSTITUTE OF TECHNOLOGY Bangalore, India during 3-4 September, 2020.
11. Participated and presented a paper at TWO Day Regional State Conference on ‘Science and Technology in Kannada’ organized by Karnatak Science and Technology Authority (KSTA) in association with Dharwad Regional Science Centre held at Golden Jubilee Hall,Karnatak University-Dharwadduring23-24<sup>th</sup>November2018.
12. Mechanical and Thermal Studies of Brilliant Green Doped Poly (vinyl alcohol) Polymer Composite. Mallikarjun. H. Anandalli, R. F Bhajantria, Sunil G. Rathod, Kanakaraj, Chetan Chavan and **ShivaprasadChalawadi** 63<sup>rd</sup> DAE Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology, Hisar, Haryana. India during 18-22<sup>nd</sup> December 2018.
13. Investigation of structural, thermal and mechanical properties of high filler CdSe dispersed PMMA polymer nanocomposites. Mallikarjun. H. Anandalli, R. F. Bhajantri, Kanakaraj T.M, SatyappaKalliguddi, **ShivaprasadChalawadi**, Chetan Chavan and Soumya Bulla,

International Conference on Advanced Materials Science and Applications (ICAMSA-2020), Ramaiah Institute of Technology, Bangalore, Karnataka. India, during 3<sup>rd</sup> – 4<sup>th</sup> September 2020

14. Effect of Calcination Temperature on Synthesized ZnO nanoparticles Chetan Chavan, R. F. Bhajantri, **Shivaprasad Chalawadi**, Mallikarjun Anandalli, Satyappa Kalliguddi 2244, 070015 (2020) International conference on Physics Of Materials & Nanotechnology (Icpn 2019) held at Mangalore University during September 19-21, 2019

15. Optical properties of Neutron Irradiated PMMA doped Methyl Red Soumya Bulla, R. F. Bhajantri, Chetan Chavan, **Shivaprasad Chalawadi**, Mallikarjun Anandalli, Satyappa Kalliguddi 2244, 090004 (2020) International conference on Physics Of Materials & Nanotechnology (Icpn 2019) held at Mangalore University during September 19-21, 2019

### **C. National/ International seminar/Webinars/Workshop/Training courses attended**

16. Participated in National Seminar on “**Frontier Methods and Techniques for Probing Molecules and Materials**” held during 21-22 March 2018 at Dept. of Physics, K.U. Dharwad sponsored by center of advanced study at level-II scheme under UGC-funded special assistance programme, New Delhi.

17. Actively participated in the Second International conference on Advanced materials & Technology (ICMAT-20) organized by Sri Jayachamarajendra College of Engineering, Mysuru from 16<sup>th</sup> to 18<sup>th</sup> January 2020.

18. Participated in one-day workshop on “**society, research and development**” conducted by research scholar association Karnatak University Campus, Dharwad.

19. Attended the One Day Symposium on “**Computational Materials Science**” organized by Karnataka State Higher Education Academy (KSHEA), Karnatak University Campus, Dharwad: on 5<sup>th</sup> September-2019.

20. Participated in one-day workshop on “**Research facility training programme**” (RFTP) for Research Scholars Under SERB Scientific responsibility (SSR) activity in Karnatak Science College Dharwad. Dept of chemistry on 21<sup>st</sup> November 2019.

21. Participated in the “**NATIONAL WORKSHOP ON NUCLEAR, LASER AND**

**ACCELERATOR TECHNOLOGIES”** jointly organised by SPIE (USA). Dept of physics, Karnatak University Dharwad, in association with INS, BARC, Mumbai held on 12<sup>th</sup> June, 2024 at Karnatak University Campus, Dharwad.

22. Attended the National Web Conference on **“Synthesis and Characterization of Novel Materials”** on 6th & 7th July 2020 Organized by PG & Research Department of Physics, Muthurangam Govt. Arts College (A), Vellore-632 002
23. Participated in the National Online Webinar on **“SPACEEXPLORATION AND PHYSICS”** held on 24-06-2020 Jointly organized by PG and Research Department of Physics United Technology.
24. Actively participated in the one day national webinar on **“MODERN SCIENTIFIC TRENDS IN RESEARCH METHODOLOGY”** organized by Department of Physics and Electronics, K. L. E. Society’s Jagadguru Tontadarya College, Gadag, Karnataka on 4<sup>th</sup> July, 2020.
25. Participated in the National Webinar on **“Raman Effect and its Applications”** organized by the Department of Studies in Physics, Davangere University, Davangere on 25th June, 2020.
26. Participated in the National Webinar on **“The Art and Science of Writing Scientific Papers”(ASWSP-2020)** organized by Department of Nanotechnology, Swarnandhra College of Engineering & Technology, Narsapur(A.P) conducted on 11<sup>th</sup> July 2020.
27. Participated in the International Webinar on **“Recent Trends in Physics”** organized by Department of Physics Karnatak Science College, Dharwad in association with IQAC on 28<sup>th</sup> November 2020.
28. Professional Member of **INSC International Publishers(IIP)** in recognition of Professional Standing and membership is of Life Time Valid, and can be mentioned as **LIFE MEMBER OF IIP (LMIIP)**.
29. Participated in National Workshop on **“Computational Physics”** held at Alva’s College Moodbidri, 2017 Dakshin Kannada, Karnataka.
30. Participated in National Workshop on **“Theoretical Physics”** held at Alva’s College Moodbidri, 2016 Dakshin Kannada, Karnataka.

31. Participated in National Seminar on “**THEORETICAL ASPECTS OF PARTICLE AND HIGH ENERGY PHYSICS**” held at St Philomena College, Puttur T.Q., Dakshin Kannada.
32. Participated in National Conference on “**Condensed Matter Physics and Applications**” held at Manipal Institute of Technology, Manipal University.
33. Attended the “**Teaching Methodology Classes**” (B.Ed Syllabus) during academic year 2014-15.
34. Participated in “**University level QUIZ**” competition held on January 2013 at K.L.E.Society’s Jagadguru Tontadarya College, Gadag-Betgeri.
35. Participated in the “**State Pre-Republic Day Parade Selection Camp 2012-13**” held at NSS Bhavan, Jnanabharathi Campus, Bangalore University, Bangalore.
36. Attend NSS Camp in 2012 held under the campaign “**Role of Youth in Nation Building**”.

**Strengths:**

- Ability to adapt to the changing environment.
- Excellent communication skills.
- Good at team work.
- Positive attitude towards work.

**Personal Details:**

- Date of Birth: 02-12-1992.
- Hobbies: Playing Cricket, Science Models, Seminar Presentation.
- Gender: Male.
- Languages known: Kannada, English, Hindi.

**I hereby declare that the information furnished above is true to the best of my knowledge and belief.**

**Place:** Hosapet

**Date :** 03/06/2025

**Dr. Shivaprasad S. Chalawadi**