

## Curriculum Vitae

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### Career Objective

To carry out research in the interesting field of Astronomy & Astrophysics and to pursue a career in an esteemed institute which will motivate me in achieving the highest individual and professional growth in a manner to prove myself as an asset to the scientific community. I am aiming to be a key player in this challenging and creative environment.

### Career Profile

- September, 2017-till date: Working as an Assistant Professor at SantGuruGhasiDas Govt. PG College,Kurud,Dhamtari, affiliated by Pt. Ravishankar Shukla University, Raipur, C. G.
- December, 2016-August2017: Worked as Lecturer at Govt. Co-Ed Polytechnic Batar, Jagdalpur, C. G.
- Aug2016-Nov2016: Worked as Guest Lecturer at SantGuruGhasiDas Govt. PG College,Kurud,Dhamtari, affiliated by Pt. Ravishankar Shukla University, Raipur, C. G.
- Aug2015-Feb2016: Worked as Guest Lecturer at Govt.S.N.CollegeNagri,Dhamtari, affiliated by Pt. Ravishankar Shukla University, Raipur, C. G.
- Aug2014-Jan2015: Worked as Guest Lecturer at Govt.S.N.CollegeNagri,Dhamtari, affiliated by Pt. Ravishankar Shukla University, Raipur, C. G.
- Jan2014-Feb2014: Worked as Lecturer (JBS) at Govt.S.N.CollegeNagri,Dhamtari, affiliated by Pt. Ravishankar Shukla University, Raipur, C. G.

### TeachingExperience

- Having9Years ofTeachingExperience in UG (2014 to till date).
- Having6Years ofTeachingExperience in PG (2017 to till date).

### Academic Profile

- MSc Physics (2013) from the School of Studies Physics and Astrophysics Pt. R.S. University Raipur, C.G.
- BSc (IT) (2011) from BCS Govt. PG College Dhamtari, CG
- Higher Secondary School (2008) From Shringi Rishi Higher Secondary School Nagri, CG
- High School (2006) From Shringi Rishi Higher Secondary School Nagri, CG

### Achievements

- *Faculty Induction Programme (FIP, GURUDAKSHTA) from HRDC Raipur, (CG) held on 01 Feb to 5<sup>th</sup> march 2021.*
- *Refresher Course in Astronomy from Teacher Learning Centre (TLC) IUCAA, Pune held on 11<sup>th</sup> to 12<sup>th</sup> June 2020*
- Qualified for Lectureship in State Eligibility Test (SET-2013)
- Selected for ARIES Training School in Observational Astronomy (ATSOA-2013)

### Computational Skill

- Operating System- Linux, Windows
- Programming- FORTRAN
- Packages- IRAF
- Plotting Software- Gnuplot, Excel

## Publication

- Optical Studies of Type Ic Supernova SN 2020akf in galaxy KUG 0925+387B, K.R. Sahu, Yogita Patel, Mulchand Kurre, Shrutika Tiwari, N.K. Chakradhari, G.C. Anupama, D.K. Sahu. Presented at 42nd Meeting of the ASI, hosted jointly by IISc, ISRO and Jawaharlal Nehru Planetarium, Bengaluru from 31 Jan to 04 Feb 2024.
- Normal Type Ia Supernova SN 2010ju, Shrutika Tiwari, N.K. Chakradhari, K.R. Sahu, Mulchand Kurre, D.K. Sahu, G.C. Anupama, Presented at 42nd Meeting of the ASI, hosted jointly by IISc, ISRO and Jawaharlal Nehru Planetarium, Bengaluru from 31 Jan to 04 Feb 2024.
- Type Ia supernovae SN 2013bz, PSN J0910+5003 and ASASSN-16ex: similar to 09dc-like? Tiwari S., Chakradhari N. K., Sahu D. K., Anupama G.C., Kumar B., Sahu K.R., 2023, MNRAS, 521, 5207, DOI: 10.1093/mnras/stad864, Impact Factor: 4.8.
- UV Optical studies of superchandrashekar/09dc like type Ia supernovae, S. Tiwari, **K. R. Sahu**, N. K. Chakradhari, D. K. Sahu, G. C. Anupama, presented at NSSEMA-2023, 16-18 March 2023, PRSU Raipur.
- Luminous type Ia Supernova SN 2013bz, Shrutika Tiwari, N. K. Chakradhari, D.K. Sahu, G. C. Anupama and K. R. Sahu. Presented at 41st Meeting of the ASI, held at IIT Indore during 1-5 March 2023.
- Photometric and spectroscopic studies of type Ia supernova SN 2013bz, Shrutika Tiwari, N. K. Chakradhari, D. K. Sahu, G. C. Anupama, K. R. Sahu. Presented at Young Astronomers' Meet 2022, ARIES Nainital, 9-13 November 2022.
- Template fitting on type Ia supernova light curves, Shrutika Tiwari, N. K. Chakradhari, D. K. Sahu, G. C. Anupama, K. R. Sahu presented at International Workshop on Science and Technology in Astronomy Research (STAR 2022), SoS in Physics and Astrophysics, Pt. R.S. University Raipur, 15 -18 October 2022.

## Invited Lecture

- Given a lecture on the “life cycle of the star” on 22 Dec. 2019 at S.P.C. College Nawapara-Rajim (Pt. R.S. Univ. Raipur, C.G.) on the occasion of National Mathematics Day.
- Given a lecture on the “Career Guideline” on 22 Dec. 2021 at Govt. Higher secondary school Vishrampur on the occasion of National Mathematics Day.
- Given a lecture on Template fitting on type Ia supernova light curves in STAR-2022 International Workshop, 15-18 October 2022, at Pt. R.S. University, Raipur.

## Conferences, Workshops

- Participated in *International Workshop on “Science & Technology Research in Astronomy”* STAR-2022 Organized by the School of Studies Physics and Astrophysics Pt. R.S. University Raipur, C.G. 15<sup>th</sup> to 18<sup>th</sup> October 2022.
- Participated in the *International Conference on “functional materials 2022”* (ICFM-2022) Organized by the School of Studies Physics and Astrophysics Pt. R.S. University Raipur, C.G. 24<sup>th</sup> to 26<sup>th</sup> August 2022.
- *Attended One week faculty development programme (FDP) organised by Govt. Digvijay Autonomous PG college Rjnandgaon. 8<sup>th</sup> to 15<sup>th</sup> June 2022.*

## Sky Watching Programme

Participate Planetarium Shows, sky-watching programmes, telescope demonstrations and astronomical events in public outreach programmes.

## An important contribution to college

- Organized a National Science Day on Feb 28, 2019, 2022 as a programme organizer.
- Conducted a two-day PCB design workshop, 28-29 October 2020 as a coordinator.
- Worked as Coordinator and member of various committees formed by College Administration from time to time