

Dr. Suraj Kumar Karmakar, WBES

Assistant Professor in Physics

Kabi Jagadram Roy Government General Degree College

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**Objective**

To work with a reputed institution as an Assistant professor, that will provide me a good platform to utilize my teaching & administration skills and will help me to grow my career.

Educational qualification

- ☐ B.Sc. in Physics (Hons.) from Burdwan Raj College in 2008.
- ☐ M.Sc. in Physics from The University of Burdwan in 2011.
- ☐ Post-M.Sc. from Saha Institute of Nuclear Physics (SINP) in 2012.
- ☐ Ph.D. degree from Jadavpur University in 2022. The research was conducted at the Indian Association for the Cultivation of Science (IACS).

Achievements

- ❑ Secured Highest percentage of marks (**University Topper**) in B.Sc. Physics (Hons.) Examination and was awarded **Monoranjana Kundu Prize**.
- ❑ Second Topper in the M.Sc. Physics Examination.
- ❑ Qualified **NET - Examination 3 times**:
 1. Dec, 2018, CSIR - JRF, **All India Rank – 23**
 2. June, 2012, CSIR - JRF, **All India Rank – 38**
 3. Dec, 2010, UGC - JRF, **All India Rank – 88**
- ❑ Qualified **GATE-Examination 2 times**:
 1. GATE – 2017, **All India Rank - 23**
 2. GATE – 2019, **All India Rank – 39**
- ❑ Recommended for the post of Geophysicist (Surface) in **Oil and natural gas corporation limited (ONGC)** as a Class-I Executives (E – 1 level) (Advt. No 3/2017(R & P)).
- ❑ Qualified **SET-Examination** in the year 2010 organized by West Bengal College Service Commission (WBCSC).
- ❑ Qualified **JAM-Examination** in the year 2008 organized by **IIT, Kanpur (All India Rank - 64)**.
- ❑ Qualified the M.Sc. Entrance Examination of **Banaras Hindu University** in the year 2008 (**All India Rank – 7**)
- ❑ Recommended for **Assistant Teacher in Physics** (Bengali Medium) by West Bengal School Service Commission **Secured Second Position in Merit Panel** among Non-B.Ed. Applicants in c/w 12th RLST(AT), 2011 in Eastern region.

- ☐ Recommended for recruitment to permanent post of **Assistant Master in Physics** (Bengali Medium) in the West Bengal Subordinate Educational Service under the School Education Department by Public Service Commission, West Bengal **Secured First Position in Merit Panel**. [Advt. No. – 9(1h)/2011].
- ☐ Recommended for recruitment to permanent post of **Assistant Master in Physics** (Bengali Medium) in the West Bengal Subordinate Educational Service under the School Education Department by Public Service Commission, West Bengal **Secured First Position in Merit Panel**. [Advt. No. – 7(1i)/2012].
- ☐ Recommended for recruitment to permanent post of **Assistant Master in Physics** (English Medium) in the West Bengal Subordinate Educational Service under the School Education Department by Public Service Commission, West Bengal **Secured Second Position in Merit Panel**. [Advt. No. – 7(2c)/2012].

Extracurricular Proficiency

- ☐ Knowledge in C-programming.
- ☐ Operating experience of PPMS and SQUID.
- ☐ Knowledge in Alloy based sample preparation in Arc melting furnace.

Scientific Interests

- ☐ Condensed Matter Physics / Solid State Physics.
- ☐ Magnetic Materials and Phase Transitions.
- ☐ Plasma Physics
- ☐ Magneto Hydrodynamics

Research

- ❑ **Publication:** Published **FIVE (5)** articles in International Journal.
- ❑ Presented an article in DAE-Solid State Physics Symposium-2015

List of Publication

1. Investigation of magnetic and electrical transport properties of $\text{Dy}_2\text{Ni}_2\text{Sn}$;
S. K. Karmakar, S. Giri and. S. Majumdar,
Journal of Magnetism and Magnetic Materials, 370, 96-99 (2014).
2. Observation of large low temperature magnetocaloric effect in HoCu_2 ;
S. K. Karmakar, S. Giri and. S. Majumdar,
J. Appl. Phys., 117, 193904 (2015).
3. Universal field dependence of conventional and inverse magnetocaloric effects in DyCo_2Si_2 ;
S. K. Karmakar, S. Giri and. S. Majumdar,
J. Appl. Phys., 121, 043901 (2017).
4. The Emergence of an Itinerant Ferromagnetic State in Co-Doped YNi_5 : A Critical Behavior Study of the Phase Transition
Suraj. K. Karmakar, Saurav Giri and Subham Majumdar,
Phys. Status Solidi B, First published: 13 July 2020,
DOI : 10.1002/pssb.202000273.
5. Investigation of Magnetocaloric Effect in $\text{GdGa}_{0.8}\text{Ge}_{0.2}$;
S. K. Karmakar and. S. Majumdar,
AIP Conference Proceedings 1731, 130021 (2016).