

# Dr. Kishora Nayak

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I am working as an **Assistant Professor (OES-I)** in the P.G. Department of Physics, Panchayat College Bargarh-768028, Odisha (an affiliated college under the Sambalpur University) since 2023.

## Education:

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- **BSc (2007-10):** Panchayat College, Bargarh (1<sup>st</sup> Class Distinction, Topper, Sambalpur University)
- **MSc (2010-12):** Utkal University, Vani Vihar (1<sup>st</sup> Class with Particle Physics Specialization)
- **PhD (2012-18):** NISER, Odisha, Experimental High-Energy and Nuclear Physics
- **Post-doc (2018-23):** Institute of Modern Physics, CCNU, China and IISER Tirupati, India

## Research:

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- ❖ **Experience:** I have worked as an Experimental High Energy Physicist in the STAR Collaboration at RHIC, BNL, USA and also in ALICE Collaboration at the LHC, CERN, Switzerland during my Post-Doc and PhD
- ❖ **Domain Area:** The primary goal of my research is to understand the QCD Phase Diagram and to understand the medium dynamics of Quark-Gluon Plasma (QGP) which is formed in the relativistic heavy-ion collisions
- ❖ **Funding:**
  1. China Post-doctoral Science Foundation Grand (2019M662681), Amount Rs 10,00,000 [Completed]
  2. Mukhyamantri Research & Innovation (MRI) under MRIP-2023 (23EM/PH/124), Amount Rs 9,00,000

## International Visiting Scientist:

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- **CERN, Switzerland:** I have visited ALICE experiment at the LHC for my research work during 2014-17
- **INFN, Catania, Italy:** Visited INFN for research collaboration during my doctorate study

Got the invitation to deliver talks in various international conferences like **Quark Matter**, **ATHIC**, **ISMD** etc.

## Research Guide:

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- ◆ I am guiding a Project Assistant (PA) funded by the MRIP-2023 (23EM/PH/124)
- ◆ Several BSc and MSc students are also doing their thesis projects

Recently, I got the recognition as the official PhD guide by the Sambalpur University, Odisha.

## Teaching Experience:

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I have involved in teaching (theory and practical) of both the BSc and MSc students. I have taught Nuclear & Particle Physics, Classical Mechanics, Statistical Mechanics, Computer Programming, Modern Physics, and Optics. I was also a teaching assistant to MSc students at NISER, Bhubaneswar.

## Administrative Position:

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- I am also working as a co-ordinator of the Department of Computer Science (SF) of the college
- I am a member of the Internal Quality Assurance Cell (IQAC) of the college

## Award and Reorganization:

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- Odisha Physical Society Young Scientist Award-2024