Murshidabad University

FACULTY ACADEMIC PROFILE/ CV



Full name of the faculty member: **Samarendra Nath Saha**

Designation: **Assistant Professor**

Contact information: samar.phy@gmail.com

Academic qualifications:

College/University from which the degree was obtained	Abbreviation of the degree
IIT Kharagpur	**M.Sc.**
Krishnath College	**B.Sc.**

Positions held/ holding: a) Assistant Head of the Department of Physics (Murshidabad University)

b) NODAL Officer for Students Scholarship for Murshidabad University.

c) AISHE NODAL Officer for Murshidabad University.

Research interests: Experimental Condensed Matter Physics, Nano Composites, Magnetic Properties, Transport Properties.

Research guidance:

Projects:

Select list of publications (Only number):

a) Journals: **08**
b) Books/ book chapters:
c) Conference/ seminar volumes: **03**

Membership of Learned Societies:

Invited lectures delivered:

Awards:

a) Got "Gold Medal" for **securing highest marks** in Physics Honours in the B.Sc. Examination, 2009 of the University of Kalyani.

b) Got "**Akhil Chandra & Chapala Dutta Memorial Medal**" from Kalyani Civil association for **securing highest marks** in Physics Honours in the B.Sc. Examination, 2009 of the University of Kalyani.

c) Got a certificate from University of Kalyani for securing highest marks in Physics Honours in the B.Sc. Examination, 2009 of the University of Kalyani.

d) Got the "**Merit Cum Means Scholarship**" from West Bengal Government for the year 2009-2011.

Other notable activities:

List of Journal Publication (Last ten years):

1. **Samarendra Nath Saha**, Purna Chandra Barman, N. Bedamani Singh, Rajkumar Mondal, Sk. Anirban, Exploring the Electronic Structure and Magnetic Properties of Sm2MgMnO6 Double Perovskite, Electronic Materials Letters 20, 745–755 (2024).

2. **Samarendra Nath Saha**, Purna Chandra Barman, Rajdip Roy, N. Bedamani Singh, Rajkumar Mondal, Shuvankar Gupta, Rakesh Das, Shivam Shukla, S. K. Srivastava, and Sk. Anirban, Structure, Electronic, Optical, Magnetic and Magnetocaloric Properties of Sm2CuMnO6 Double Perovskite Nanomaterial, ECS Journal of Solid State Science and Technology, 2024 13 074003.

3. Sk. Anirban, Rosni Roy , Rajib Mondal, **Samarendra Nath Saha**, Purna Chandra Barman, Charge transport mechanism, dielectric relaxations and relaxor ferroelectric properties of Sm2MgMnO6 double perovskite, Journal of Solid State Chemistry 329 (2024) 124422.

4. Sk. Anirban, Rajdip Roy, Rosni Roy, Rajib Mondal, **Samarendra Nath Saha**, Purna Chandra Barman, Unraveling the charge carriers conduction mechanism and dielectric properties of Sm2CuMnO6 double perovskite, Materials Science in Semiconductor Processing 190 (2025) 109313.

5. Jagannath Panda, Samarendra Nath Saha, Tapan Nath, Critical behavior and magnetocaloric effect in Co50−xNi Cr25Al25 (x= 0 and 5) full Heusler alloy system, Journal of Alloys and Compounds ,644, May 2015.
6. Jagannath Panda, Samarendra Nath Saha, Tapan Nath, Room temperature giant positive junction magnetoresistance of NiFe2O4/n-Si heterojunction for spintronics application, Physica B Condensed Matter, 448:184-187, September 2014.
7. Samarendra Nath Saha, Jagannath Panda, Tapan Nath, Structural and Magnetization Behavior of Highly Spin Polarized Co2CrAl Full Heusler Alloy, AIP Conference Proceedings 1591, 1395, March 2014.
8. S.N.Saha, J. Panda, T. K. Nath, Critical Behavior Near Magnetic Phase Transition in Co2CrAl Full Heusler Alloy; Advanced Science Letters, Volume 22,Number 1, January 2016, pp. 121-125(5).

Recent Conferences Attended:

1. "MODERN TRENDS IN BIOLOGICAL SCIENCES", by Department of Zoology and Physiology, Krishnath College (State Level).
2. "International Conference on Advanced Physics for Sustainable Future: Innovations and Solutions (IEMPHYS-24)" by Department of Basic science and Humanities, IEM, Kolkata.
3. 4th National Conference on Frontiers of Modern Physics (NCFMP-2024) by School of Basic and Applied Sciences, Adamas University, Kolkata.