

Curriculum Vitae of Dr. Dipika Saha

- **Name:** Dr. Dipika Saha
- **Present Designation:** Associate Professor in Physics
- **Date of Birth:** 05.01.1966
- **Contact Information:**
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- **Education/ Academic Qualifications:** B Sc in Physics (Calcutta University)
M Sc in Physics (Calcutta University)
PhD in Material Science (Jadavpur University)
- **Date of Joining:** 15.05.2000
- **Languages known:** Bengali, English, Hindi
- **Computing skill:** Bengali, English, Hindi
- **Specialization:** Solid State Physics
- **Research Interests:** Ferroelectric properties of Relaxor Materials
- **Teaching Experience:** 23 years
- **Research Experience:** 10 years
- **Achievements/ Awards:**
Qualified in the NET Exam under CSIR scheme for joint Junior Research Fellowship and Lectureship in 1990.
Qualified in the Research Associateship under CSIR scheme in April 1997.
- **Publications:**

National/International Journal:

1. **Dipika Saha**, A. Sen and H. S. Maiti, "Solid state synthesis of precursor MgNb_2O_3 for the preparation of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_6$ ", **J. Mat. Sc. Lett.**, **13** 723 (1994).
2. **D. Saha** and A. Sen, "Low frequency dispersion extended to higher frequency: A new look at relaxor behavior", **Phil. Mag. Lett.**, **71** (6) 367 (1995).
3. **D. Saha** and A. Sen and H. S. Maiti, "Fast firing of lead magnesium niobate at low temperature", **J. Mat. Res.**, **11** (4) 932 (1996).
4. **Dipika Saha**, A. Sen and H. S. Maiti, "Lead oxide as a sintering aid for liquid phase sintering of lead magnesium niobate", **Trans. Ind. Ceram. Soc.**, **57** (4) 95 (1998).

5. **Dipika Saha**, A. Sen and H. S. Maiti, "Low temperature liquid phase sintering of lead magnesium niobate", **Ceramic International**, **25** (2) 145 (1999).
6. **Dipika Saha**, M. Saha, K. Sengupta, A. Sen and H. S. Maiti, "Lead magnesium niobate relaxor ferroelectric material as a moisture sensor", Proceeding of the **International Conferences on Smart Materials, Structures and Systems**, IISc, Bangalore, 7-10 July 1999, Eds. P. D. Mangalgi, A. R. Upadhy and A. Selvarajan, (Allied Publishers Limited, New Delhi, India) P 103 107.
7. **Dipika Saha**, A. Sen and H. S. Maiti, "Effect of humidity on dielectric properties of lead magnesium niobate containing excess MgO", **Mat. Res. Bull.**, **35** (2) 305 (2000).
8. **Dipika Saha**, A. Sen and H. S. Maiti, "The role of dilatancy on expansion during early stage liquid phase sintering of lead magnesium niobate", **Ceramic International**, **27**, 51 (2001)
9. N. Halder, D. Chattopadhyay, A. Das Sharma, **D. Saha**, A. Sen and H. S. Maiti, "Effect of sintering atmosphere on the dielectric properties of barium titanate based capacitors", **Mat. Res. Bull.**, **36** (5) 905 (2001).
10. **Dipika Saha**, A. Das Sharma, A. Sen and H. S. Maiti, "Preparation of bixbyite phase (Mn_xFe_{1-x})O₃ for NTC thermistor applications", **Materials Letters**, **55** 403 (2002).

Books/Book Chapters: NA

Seminars/Conferences Proceeding /Abstracts:

1. **Dipika Saha, A. Sen and H. S. Maiti** "Preparation of lead magnesium niobate with perovskite structure and its dielectric properties", Proceeding of 57th annual session of Indian Ceramic Society, Delhi, India, 1993.
2. **Dipika Saha, A. Sen and H. S. Maiti**, "Low temperature rapid sintering of lead magnesium niobate", Proceeding of 58th annual session of Dipika Saha, A. Sen and H. S. Maiti of Indian Ceramic Society, Bhilai, India, 1994.
3. **Dipika Saha, A. Sen and H. S. Maiti**, "Lead oxide as a sintering aid in liquid phase sintering of PMN", 60th annual session of Indian Ceramic Society, Ranchi, India, 1996.
4. **Dipika Saha and A. Sen**, "A new understanding of relaxor behavior", 7th annual general meeting of MRSI, Bangalore, India, 1996.
5. **Dipika Saha, M. Saha, K. Sengupta, A. Sen and H. S. Maiti**, "lead magnesium niobate relaxor ferroelectric material as a moisture sensor", presented at International Conferences on Smart Materials, Structures and Systems, IISc. Bangalore, July 1999.

Patents:

1. **Dipika Saha, A. Sen and H. S. Maiti**, "An improved process for the sintering of lead magnesium niobate (PMN) based ferroelectric materials useful for the fabrication of electronic device", Pat. No. 1714/DEL/1997.

2. **Dipika Saha, A. Sen and H. S. Maiti**, “A novel composition useful for making moisture sensors and a process for making moisture sensors therefrom”, Pat. No. NF 248/00 (2000).

• **Papers Presented In National/International Seminars/ Conferences:**

1. **Dipika Saha, A. Sen and H. S. Maiti** “Preparation of lead magnesium niobate with perovskite structure and its dielectric properties”, Proceeding of 57th annual session of Indian Ceramic Society, Delhi, India, 1993.
2. **Dipika Saha, A. Sen and H. S. Maiti**, “Low temperature rapid sintering of lead magnesium niobate”, Proceeding of 58th annual session of Dipika Saha, A. Sen and H. S. Maiti of Indian Ceramic Society, Bhilai, India, 1994.
3. **Dipika Saha, A. Sen and H. S. Maiti**, “Lead oxide as a sintering aid in liquid phase sintering of PMN”, 60th annual session of Indian Ceramic Society, Ranchi, India, 1996.
4. **Dipika Saha and A. Sen**, “A new understanding of relaxor behavior”, 7th annual general meeting of MRSI, Bangalore, India, 1996.
5. **Dipika Saha, M. Saha, K. Sengupta, A. Sen and H. S. Maiti**, ‘lead magnesium niobate relaxor ferroelectric material as a moisture sensor’, presented at International Conferences on Smart Materials, Structures and Systems, Iisc. Bangalore, July 1999.

• **National/ International Seminars/ Conferences/Workshops Attended:**

Title of the Programme	Sponsoring Agency	Venue & Date
Two-Day Hands-on Online Training on Basics of C and C++ Programming Language for Students	DBT	K C College, Hetampur, Birbhum 26.01.21 - 27.01.2021
Three Days Lecture Series on ‘Basic Operations of Tensor Algebra’	DBT	K C College, Hetampur, Birbhum 08.02.2021 - 10.02.2021
Two Days’ Hands-on Online Training on SCILAB	DBT	K C College, Hetampur, Birbhum 13.02.2021 - 14.02.2021
International Webinar on Nano Materials and its Applications	DBT	K C College, Hetampur, Birbhum 26.02.2021 - 28.02.2021
Inauguration of “Meghnad Saha Innovation Laboratory” and talk on “Innovative Mind: facing the challenges ahead”	DBT	K C College, Hetampur, Birbhum 20.03.2021

- **Faculty development Courses or programmes attended:**

Sl. No.	Course	Sponsoring Agency	Institutions	Period/Date
1	Orientation Programme	UGC	Academic Staff College, The University of Calcutta	9 th Feb to 8 th March, 2005
2	National Seminar cum Workshop on Evaluation System at UG level	UGC	St. Xavier's College, Kolkata	1 st & 2 nd April, 2007
3	11 th Refresher Course in Physics	UGC	Academic Staff College, The University of Burdwan	7 th Jan to 27 th Jan 2010
4	Refresher Course in Environmental Studies	UGC	Academic Staff College, The University of Calcutta	8 th Feb to 27 th Feb 2010
5	Faculty Development programme (FDP) on Learning Management Systems and Open Educational Resources	DBT	Krishna Chandra College, Hetampur, Birbhum	04 th Nov to 10 th Nov, 2020
6	Two-day Hands-on Online Training on Basics of C and C++ Programming Language for students	DBT	Department of Mathematics and Department of Physics, Krishna Chandra College	26 th to 27 th January, 2021
7	Three days Lecture Series On Basic operations on Tensor Algebra	DBT	Department of Physics, Krishna Chandra College	February 8-10, 2021
8	Two-day Hands-on Online Training on SCILAB	DBT	Department of Physics, Krishna Chandra College	February 13-14, 2021

- **Reviewer of Reputed International Journals (if applicable):** NA
- **Foreign travel for academic purposes (if any):** NA
- **Extracurricular/Administrative Activities (if any): Acted as**
 1. Member of Governing Body (University Nominee) in Birbhum Mahavidyalaya Suri, Birbhum
 2. Member of Governing Body (Teacher Representative) in K C College, Hetampur, Birbhum
 3. Member of IQAC of K C College, Hetampur, Birbhum
 4. Member of Finance Committee of K C College, Hetampur, Birbhum
 5. Convenor of Routine sub-committee of K C College, Hetampur, Birbhum

6. External Examiner of B.Sc. Part II (Hons) Practical Examination of Burdwan University
7. Convenor of Internal Complaints Committee & Sextual Harassment Prevention cell
8. Acted as Assistant Venue in Charge of TET Examination 2017 and 2022
9. Acted as Assistant Venue in Charge of B Ed Examination
10. Member of different sub-committee of K C College, Hetampur, Birbhum

- **Other Academic Activities: Acted as**

- 1 Examiner of Theory and Practical paper of Burdwan University Examination
 - 2 External Examiner of Burdwan University Examination
 - 3 Paper Setter of Burdwan University Examination
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