

# Curriculum Vitae

## Dr. Radha Narzary

Assistant Professor, Department of Physics

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## Career Objective

Dedicated and research-oriented Physics academician with expertise in Solid State Physics and Materials Science. Passionate about teaching, research, and mentoring students while contributing to innovative research in semiconductor physics, spintronics, and advanced functional materials.

## Personal Details

- **Name:** Dr. Radha Narzary
- **Father's Name:** Lt. Santiram Narzary
- **Mother's Name:** Femela Narzary
- **Date of Birth:** 11 December 1993
- **Gender:** Female
- **Nationality:** Indian
- **Category:** ST(P)
- **Languages Known:** English, Hindi, Bodo, Assamese, Bengali

## Academic Qualifications:

Examination	Name of the Board/ University	Year of Passing	Division/ Class/ Grade	Percentage (%)	Subject
HSLC	SEBA	2009	First	75	Adv. Math, S.Science, Gen.Science, Gen. Math, Eng, Bodo
HSSLC	CBSE	2011	First	78.6	Physics, Chem, Math, Biology, Eng
B.Sc.	COTTON COLLEGE	2014	First	70	Physics(M), Math, Stats
M.Sc.	GAUHATI UNIVERSITY	2016	First	73.2	Physics

## **Research Degree:**

### **Ph.D. in Physics**

#### **Title of Thesis:**

*Crystal Structure, Optical, and Magnetic Properties of Non-magnetic Elements co-doped Oxides (SnO<sub>2</sub>, ZnO, TiO<sub>2</sub>)*

#### **Supervisor:**

Dr. Sandeep Kumar Srivastava  
Associate Professor, CIT Kokrajhar

#### **Co-Supervisor:**

Prof. Seenipandian Ravi  
Indian Institute of Technology Guwahati

**Date of Award:** 19 March 2024

## **Additional Qualifications:**

- CSIR–UGC NET (JRF), 2018 (Qualified for Assistant Professor)
- Computer Course: MS-Windows, MS-Word, MS-Excel, MS-PowerPoint
- Praveen (Hindi) – 93.5%
- Pragya (Hindi) – 94%

## **Professional Experience:**

### **Assistant Professor**

Gyanpeeth Degree College  
Department of Physics | June 2025 – Present

### **Junior Technical Superintendent**

Indian Institute of Technology Guwahati  
Department of Physics | July 2017 – June 2025 (On Lien)

## **Area of Specialization:**

- Solid State Physics
- Materials Science

## Awards and Fellowships:

### Anundoram Borooah Award

Awarded by Assam State Government (2009)

## List of Papers Published in International Journals

1. Optical Band Gap Tuning, Zero Dielectric Loss and Room Temperature Ferromagnetism in (Ag/Mg) co-doped SnO<sub>2</sub> compounds for Spintronics Applications. **R. Narzary**, B. Dey, L. Chouhan, S. Kumar, S. Ravi, S. K. Srivastava. Materials Science in Semiconductor Processing 142 (2022) 106477 [**IF=4.6**].
2. Influence of K/Mg co-doping in tuning room temperature d<sub>0</sub> ferromagnetism, optical and transport properties of ZnO compounds for spintronics applications  
**R. Narzary**, B. Dey, Sushree Nibedita Rout, A. Mondal, G. Bouzerar, Manoranjan Kar, S. Ravi, S. K. Srivastava J. of Alloys and Compounds 934 (2023) 167874 [**IF=6.371**].
3. Influence of Na/Mg co-doping in tuning microstructure, transport, optical and magnetic properties of TiO<sub>2</sub> compounds for spintronics applications  
**R. Narzary**, B. Dey, S. Sen, B. N. Parida, A. Mondal, S. Ravi, S. K. Srivastava Magnetochemistry 8 (2022) 150 [**IF=3.336**].
4. Crystal Structure, Micro-structure, Raman Spectroscopy, Optical, Magnetic, and Electrical Property of Sn<sub>0.94</sub>-yAg<sub>0.06</sub>Sb<sub>y</sub>O<sub>2</sub> Compound  
**R. Narzary**, S. Ravi, S. K. Srivastava Appl. Phys. A 129 (2023) 630 [**IF=2.8**].
5. Influence of Al doping on crystal structure, magnetic and optical properties of TiO<sub>2</sub> compounds.  
B. Dey, **R. Narzary**, S. Ravi, S. K. Srivastava. Journal of Physics and Chemistry of Solids 194 (2024) 112225 [**IF=4.3**]
6. Room temperature ferromagnetism, optical band gap widening in Mg-doped ZnO compounds for spintronics applications.  
B. Dey, **R. Narzary**, Sushree Nibedita Rout, Manoranjan Kar, S. Ravi, S. K. Srivastava. Ceramics International (2023) [**IF=5.2**]
7. Room temperature d<sub>0</sub> ferromagnetism, band-gap reduction, and high optical transparency in p-type K-doped ZnO compounds for spintronics applications.  
B. Dey, **R. Narzary**, Shantanu Kumar Panda, Jyotirekha Mallick, A. Mondal, S. Ravi, Manoranjan Kar, S. K. Srivastava. Materials Science in Semiconductor Processing (2022) [**IF=3.927**].
8. Crystal Structure, Optical and Dielectric Properties of Ag:ZnO Composite Like Compounds.  
B. Dey, **R. Narzary**, L. Chouhan, S. Bhattacharjee, B. N. Parida, A. Mondal, S. Ravi, S.

K. Srivastava

Journal of Materials Science: Materials in Electronics 33 (2022)2855–2868 [IF=2.478]

9. Tailoring room temperature d<sub>0</sub> ferromagnetism, dielectric, optical and transport properties in Ag-doped rutile TiO<sub>2</sub> compounds for spintronics applications.  
L. Chouhan, **R. Narzary**, B. Dey, Shantanu Kumar Panda, Murli Kumar Manglam, L. Roy, R. Brahma, A. Mondal, M. Kar, S. Ravi, S. K. Srivastava. Journal of Materials Science: Materials in Electronics 32 (2021) 28163 [IF=2.478].
10. Crystal Structure, Raman Spectroscopy and Optical Property Study of Mg-doped SnO<sub>2</sub> Compounds for Optoelectronic Devices  
K. K. Singha, P. P. Singh, **R. Narzary**, A. Mondal, M. Gupta, V. Sathe, D. Kumar, S. K. Srivastava  
Crystals 13 (2023) 932 [IF=2.4].

## Conference Papers / Participations / Paper Presented

1. Influence of co-doping in tailoring the crystal structure, optical and transport properties of (Na/Mg) co-doped TiO<sub>2</sub> compounds for optoelectronics applications  
**R. Narzary**, S. Ravi, S.K.Srivastava  
(Poster presented in XIII Biennial National Conference of Physics Academy of North East (PANE), 2022, held during 08-10 November 2022 organized by Department of Physics, Manipur University, Manipur, India.)
2. Crystal Structure, Optical and Magnetic Properties of Sb/Ag co-doped SnO<sub>2</sub> compounds.  
**R. Narzary**, S. Ravi, S. K. Srivastava  
(Poster presented in 7th International Conference on Nanoscience and Nanotechnology – ICONN 2023 (Virtual Conference), held during 27-29 March 2023)
3. The influence of K/Mg co-doping on Crystal Structure, and Magnetic Properties of ZnO Compounds.  
**R. Narzary**, S. Ravi, S. K. Srivastava  
(Poster presented in International Conference on Emerging Trends in Magnetism & Magnetic Materials (ICETMM 2023), held during 06-08 July, 2023 in online mode)

## Seminar, Workshop, Conference, etc. Attended

1. Participated in the State Level Workshop on “Latest UGC Guidelines & Building Academic Future” held on 30th June, 2025, organized by Research and Development Cell, Gyanpeeth Degree College, Nikashi, BTR, Assam.

2. Participated in RUSA 2.0/PM-USHA Assam Sponsored 2-day Teachers' Training Programme on Mentoring Cutting Edge Research in the Light of NEP 2020 under the 'Mentoring cutting-edge Research' scheme of Gauhati University, held from 9th to 10th October, 2025 in physical mode, conducted by Kokrajhar University in collaboration with UGC-MMTTC, Gauhati University.
3. Participated in the Training Programme on "Reservation Policy in Services for SC/ST/OBC & PWD" at IIT Guwahati on 4th April 2019 & 6th April 2019, organized by Society for Economic Research & Training (SCERT), New Delhi.
4. Participated in the Training Programme on "SOFT SKILLS" organized by E&ICT Academy supported by Ministry of Electronics and Information Technology (MeitY), Government of India, IIT Guwahati held from 2nd to 6th April, 2018.
5. Participated and presented a poster titled "Fluorescence Spectroscopy-A Ray of Hope for Cancer Patients" in the TEQIP Symposium to celebrate the 2015 International Year of Light held on 31st October 2015 at IIT Guwahati.
6. Participated and presented a poster in the National Science Day held at the Department of Physics, Gauhati University on 28th February, 2015.
7. Participated as a State Delegate in One Day Lecture cum Discussion Programme on Science, Youth and Development organized by Vigyan Prasar NOIDA, DST Government of India, New Delhi and Cotton College, Guwahati on 21st March, 2014.
8. Participated in the Yogasana Workshop organized by IIT Guwahati Sports Board on the occasion of the 10th International Day of Yoga 2024.

## Technical Expertise

1. Technical Assistance and Teaching Assistance to teaching labs in IIT GUWAHATI as mentioned below:
  - PH 110 Lab (B.Tech 1<sup>st</sup> year Lab)
  - General Physics Lab PH 210 Lab (B.Tech 3<sup>rd</sup> Sem Lab)
  - General Physics Lab II PH 511 Lab (M.Sc 3<sup>rd</sup> Sem Lab)
  - General Physics Lab I PH 412 Lab (M.Sc 2<sup>nd</sup> Sem Lab)
  - Electronics Lab PH 411 Lab (M.Sc 1<sup>st</sup> Sem Lab)
2. Handling of sophisticated instruments:
  1. UV-Visible Spectrophotometer
  2. High Temperature Furnace

## Declaration

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

**Dr. Radha Narzary**