

CURRICULUM VITAE

SRI LAKSHMAN DHAL

Date of Birth: 03.04.1990

E-mail ID: lakshmanatiitm@gmail.com

DESIGNATION

Assistant Professor of Physics, Dum Dum Motijheel College, Kolkata-700074.

ACADEMIC BACKGROUND

- M.Sc. (Physics), Indian Institute of Technology Madras, Chennai, Tamilnadu, 2012.
- B.Sc. (Physics), Midnapore College (Vidyasagar University), West Bengal, 2010.

POSITIONS HELD/ HOLDING

- 2017–Present: Assistant Professor, Dum Dum Motijheel College

TEACHING INTEREST

- Heat and thermodynamics, Physical Optics, Statistical Physics, Laser and Fiber Optics, Vacuum Techniques, Solid State Physics.
- Experimental Condensed Matter Physics: Magnetism, Magnetoresistance, Magnetocaloric Effect and Electrical Transport Properties in Perovskite oxides.

RESEARCH PROFILE

Doctoral Research:

Pursuing doctoral research in the department of Physics at IIT Madras.

Supervisor: Dr. Nirmala R. and Prof. Santhosh P.N., Department of Physics, Indian Institute of Technology–Madras, Chennai.

M.Sc. Dissertation Thesis:

Structural, magnetic and transport properties of Dysprosium doped La_2MnCoO_6 .

Supervisor: Prof. Santhosh P.N., Department of Physics, Indian Institute of Technology–Madras, Chennai.

PUBLICATIONS:

Journal Paper:

1. **Dhal, L. et al.** (2019): Normal and inverse magnetocaloric effect in colossal magnetoresistive electron-doped manganites $R_{0.15}Ca_{0.85}MnO_3$ ($R = Y, Gd$ and Dy), *Journal of Magnetism and Magnetic Materials*, 474: 215.
2. **Dhal, L. et al.** (2019): Simultaneous magnetic and structural transitions in $Nd_{0.15}Ca_{0.85}MnO_3$ manganite: Magnetization and neutron diffraction studies, *Solid State Communications*, DOI: [10.1016/j.ssc.2019.02.006](https://doi.org/10.1016/j.ssc.2019.02.006).
3. **Dhal, L. et al.** (2014): Bulk and nanocrystalline electron doped $Gd_{0.15}Ca_{0.85}MnO_3$: Synthesis and magnetic characterization, *Physica B: Condensed Matter*, 448: 300-303.

NUMBER OF SEMINAR PRESENTATIONS:

- International: 4

NUMBER OF WORKSHOP/CAPACITY BUILDING COURSE PARTICIPATIONS:

- National: 4, State Level: 2

AWARDS

- Joint Admission Test for M.Sc. (JAM) in Physics, 2010
- Cleared Graduate Aptitude Test in Engineering (GATE) in Physics, 2012.
- Declared eligible for Lectureship (NET) in the subject of *Physical Science* in the Joint CSIR-UGC Test for *Junior Research Fellowship* and *Eligibility for Lectureship (NET)* held in 2012.