



# Mr. Dilip Kumar Meena

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Department of Physics,  
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## Academic Records:

- **H. N. B. Garhwal University**  
Assistant Professor (Department of Physics)  
*Srinagar, India*  
JUNE 2022 – PRESENT
- **IISc Bangalore**  
Ph.D. in Physics  
*Bangalore, India*  
PURSUING
- **IIT Ropar**  
M.Sc. in Physics  
*Ropar, India*  
JULY 2016 – JUNE 2018
- **Rajasthan University, Jaipur**  
B.Sc. in Physics  
*Alwar, India*  
JULY 2012 – JUNE 2015

## Awards and Fellowships:

- Passed National Eligibility Test (**NET**) (Conducted jointly by the Council of Scientific and Industrial Research and University Grant Commission, in **December 2019**).
- Passed Graduate Aptitude Test in Engineering (**GATE**) (Conducted by Indian Institute of Technology, India, **February 2019**).
- Passed National Eligibility Test (**NET**) (Conducted jointly by the Council of Scientific and Industrial Research and University Grant Commission, in **December 2018**).
- Passed Joint Entrance Screening Test (**JEST**), India, **February 2018**.
- Passed Joint Admission Test (**JAM**) (Conducted by Indian Institute of Technology, India, **February 2016**).

## Teaching:

- Teaching Assistant (TA): UP 201 (Oct-Jan) 2:1 Introductory Physics III (2020), UG, IISc, Bangalore, India.

## Research Publications:

- **Dilip Kumar Meena**, Rapaka S C Bose, K. Ramesh, Melt Solidification Rate-Dependent Structural and Thermoelectric Properties of  $\text{Sb}_2\text{Te}_3/\text{Te}$  Nanocomposites, *Journal of Alloys and Compounds* (2022).
- **Dilip Kumar Meena**, Rapaka S C Bose, S. Vinoth, K. Ramesh, Impact of Melt Solidification Rate on Structural and Thermoelectric Properties of n-type  $\text{Bi}_2\text{Te}_3$  Alloy, *Applied Physics A* (2022).
- Rapaka S C Bose, **Dilip K M**, Paolo Mele, and K Ramesh, Role of grain alignment and oxide impurity in thermoelectric properties of textured n-type Bi–Te–Se alloy, *J. Phys. D: Appl. Phys.*, (2021).
- K. Deva Arun Kumar, **Dilip K. Meena**, Rapaka S.C. Bose, Ramcharan Meena, Prashantha Murahari, Paolo Mele, K. Ramesh, Optical and thermoelectric properties of  $\text{Sb}_2\text{Te}_3/\text{ZnTe}$  nanostructured composites, *Journal of Alloys and Compounds* (2021).

## Research Experience:

- Working on room temperature-based **Thermoelectric Materials** since August 2018 [Ph.D.].
- Single Crystal Growth and Characterization of **Topological Weyl Semimetal** [M.Sc.].
- Automatic water tank level controller circuit using 555 Timer [M.Sc.].

## Conferences:

- Given an **Oral Presentation** on “Effect of Melt Solidification Rate on Structural and Thermoelectric Transport Properties of  $\text{Sb}_2\text{Te}_3/\text{Te}$  Nanocomposite” at **International Virtual Conference on Thermoelectric**, July 20-22, 2021.
- Presented a **Poster Presentation** on “Single Crystal Growth and Characterization of Topological Weyl Semimetal  $\text{MoTe}_2$ ” at Research Conclave 2018 at IIT, Ropar.

## Extracurricular Activities:

- Worked as a member of the National Service Scheme (NSS) for 240 hours during my B.Sc. at R. R. College, Alwar, Rajasthan.
- **Ran an 8 Km Mini Marathon** organized by IIT Ropar to giving the message of “Clean India Healthy India” in 2018.

## Administrative Activities:

- Worked as **Vice President** in IISc Mess, after the formal election process (Nov 2021-June 2022).
- Worked as a **Core Member** in the Mess Committee IISc for two years (Aug 2019-Oct 2021).



