Amrendra Kumar

S/o Sh. Jitendra Kumar
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EDUCATIONAL QUALIFICATION

2022 - Present	**Ph. D.**	Indian Institute of Technology, Kanpur	9.4/10
2020 - 2022	**M. Sc. (Physics)**	Indian Institute of Technology, Kanpur	8.0/10
2017 - 2020	**B. Sc. (Physics)**	Banaras Hindu University, Varanasi, Uttar Pradesh	8.11/10
2017	**10+2**	Uttar Pradesh Board of Higher Education	89.20%
2015	**Matric**	Uttar Pradesh Board of Higher Education	86.33%

RESEARCH EXPERIENCE

- **Research Project (Jan, 2023 - May, 2023): Design and development of Spintronic Terahertz Emitter** under the supervision of Dr. Rohit Medwal at IIT Kanpur.

- **Research Project (Jul, 2022 - Dec, 2022): Using Piezoelectric actuators in linear stage And interfacing pizeo controller and Lock-In amplifier with Matlab** under the supervision of Dr. Sudipta Dubey at IIT Kanpur.

- **M.Sc. Project-II (Jan, 2022 - May, 2022): Hexagonal Boron Nitride as a Single Photon Emitter** under the supervision of Dr. Sudipta Dubey at IIT Kanpur.

- **M.Sc. Project-I (Jul, 2021 - Dec, 2021): Dry Transfer Methods for Preparation of Graphene Hetero-structures and Properties of Encapsulated Graphene** under the supervision of Dr. Sudipta Dubey at IIT Kanpur.

TEACHING ASSISTANTSHIP EXPERIENCE

- **Quantum Physics (Jul, 2023 - Dec, 2023)** I have been teaching assistant in this course at IIT Kanpur.

- **Introduction to Electromagnetic Theory (Hindi) (May, 2023 - Oct, 2023)** I am teaching assistant for this course in NPTEL program.

- **Computational Physics (Jan, 2023 - May, 2023)** I have been teaching assistant in this course at IIT Kanpur.

- **Optics (Lab) (Jul, 2022 - Dec, 2022)** I have been teaching assistant in this course at IIT Kanpur.

AWARDS AND HONOURS

- Awarded **Prime Minister Research Fellowship (PMRF)** in lateral mode in 11th cycle in 2023.

- Awarded **Scholarship For Higher Education (SHE)** under Innovation in Science Pursuit for Inspired Research **(INSPIRE)** from 2017 to 2020.

NATIONAL LEVEL EXAMINATIONS QUALIFIED

- Qualified IIT-JAM- 2020

- Qualified JEST- 2020

- Qualified BHU UET- 2017

WORKSHOP/CERTIFICATION

- Completed workshop on **PCB Design and Research Applications** under skill development program organised by Academics and Carrier Council, IIT Kanpur in 2022.

- Completed workshop on **STUTI** capacity building training program organised by DST and Department of Physics, IIT Kanpur in 2023.

- Presented poster in **Institute Research Symposium (IRS)** organised by PG Academics and Career Council, IIT Kanpur in November 2023.

TECHNICAL SKILLS

- **Programming languages:** Python, Mathematica, MATLAB, C, C++

- **Tools & OS:** Gromacs, Blender, KLayout, ORIGIN, Linux, Mumax, LabView

- **IT Skills:** Microsoft Powerpoint, Latex, Microsoft Word