
Noushad Ali Malawat

Pondicherry University

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About Me

Motivated second-year MSc Physics student who loves doing experiments to really understand and feel the principles of physics. Have experience with nuclear and experimental physics projects, along with active engagement in academic activities. I have keen interest in nuclear physics, experimental physics, solid-state physics, quantum physics, condensed matter physics, and Astrophysics. Enthusiastic about working collaboratively on research projects, learning from experts, and put what I've learned in university and previous works into practice on real-life projects.

Experience

1. Indian Institute of Astrophysics (IIA) 22 Dec 2025 – 09 Jan 2026
Vainu Bappu Observatory (VBO), Kavalur, Tamil Nadu, India
 - Estimating stellar parameters of bright stars using low-resolution spectra
 2. Bhabha Atomic Research Center (BARC), 08 May - 30 June 2025
HP & SRPD • Mumbai, Maharashtra, India
 - A vibrational analysis of compound SrCO₃ under high pressure
 3. Indian Institute of Technology (IIT) Tirupati, 15 May – 12 July 2024
Andhra Pradesh, India
 - Nickel–Cobalt Hydroxide based supercapacitor :- Synthesis, characterization and electrochemical evolution
 4. B.K. Birla college Kalyan March 2024
Mumbai University • Kalyan, Maharashtra, India
 - Alcohol based thermometer, which is used in polar regions
 5. B.K. Birla College Kalyan October 2023
Mumbai University • Kalyan, Maharashtra, India
 - Distance Measuring Device Using Lasers
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Workshop and Conferences

- The 69th DAE Symposium on Nuclear Physics (08–12 December 2025)
Organized by the Board of Research in Nuclear Sciences (BRNS), Government of India, held at the National Institute of Technology (NIT) Jalandhar, Punjab, India
- 11th Aditya -L1 Support Cell Workshop (06-08 Oct 2025)
Organized by the Department of Physics, Pondicherry University, Puducherry, in association with Indian Space Research Organisation (ISRO), Bangalore & Aryabhata Research Institute of Observational Sciences (ARIES), Nainital
- National Workshop on Advances in Nuclear Energy for Sustainable Environment (NWANESE-2025)
Pondicherry University, Puducherry, in Collaboration with the Department of Atomic Energy, Indira Gandhi Centre for Atomic Research (IGCAR), GOVERNMENT OF INDIA

- Summer School on Nuclear Physics (5-11 July 2025)
Ibrahim Mirza,
University of Tennessee, USA
 - Summer Conference on High Energy Physics and Astrophysics Ninth Edition (10-11 May 2025)
Ibrahim Mirza,
University of Tennessee, USA
 - Workshop on astrophysical dust ices insights from recent telescopes (10 March 2025)
Physical Research Laboratory, Ahmedabad, India
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Publications

- Navjot Kaur, Noushad Ali Malawat, Rupinder Kaur, Sukhjeet Singh, and Birbikram Singh.
Comparative decay analysis of compound nuclei $^{24-27}\text{Mg}^*$ and $^{244-247}\text{Cm}^*$ formed in $^{12-15}\text{C}$ induced reactions.
Proceedings of the DAE Symposium on Nuclear Physics, Vol. 69, 2025. (*Presented*)
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Activities

- PRAVAH 2022-2023 (Intra-college competition)
2nd position in the science exhibition.
 - National Science Day (Intra-college competition) Organized by Science Association 2022-2023
1st position in the project demonstration of laser show devices
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Presentation

- Nuclear Fusion :- An application of quantum tunneling
(Summer school on nuclear physics 5-11 July 2025)
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Education

MSc (Physics) {pursuing}	05/2026
Pondicherry University • Kalapet, Puducherry, India	
BSc (Physics) {9.3/10 CGPA}	05/2024
B.K. Birla College Kalyan, Mumbai University • Kalyan, Maharashtra, India	
HSC (12th) —RBSE {95.80 %}	05/2021
Marwar Montessori Senior Secondary School • Makrana, Rajasthan, India	
SSC (10th) — RBSE {82.17 %}	05/2019
Marudhar Montessori Secondary School • Makrana, Rajasthan, India	

Skills

- Python, Forton, Overleaf (LaTeX)

- Raman Spectroscopy (Under high pressure), Electrochemical Workstation (performed Cyclic Voltammetry and Galvanostatic Charge – Discharge), Bentch Top X-Ray Diffraction, Telescope (Handled STAR TRACKER 150/750 EQ Reflector Telescope), and basic electronic equipment
 - Origin, PeakFit
 - Good Communication skills, Analytic Thinking, and Team leading
 - English, Hindi, Marwari, Urdu
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Extra-curricular activities

- National Science Day (Intra-college competition) Organized by Science Association 2022-2023,
1st prize in the scientific rangoli competition
 - Umesh Sir's Training center (Monthly competition),
1st prize in Skit - War
 - Organized National Science Day in the Physics Department,
B.K. Birla College, Kalyan, Mumbai University
 - Active member of Pondicherry University and B.K. Birla Astronomy Club
 - Writing poetry in Urdu and managing a social media channel to share it
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