Midland College Instructor Vitae: Imtiaz Ahmad, Ph.D.

Education

- Ph.D in Physics (Experimental Condensed Matter), Texas Tech University, USA, 2025
- MS in Physics, Texas Tech University, USA, 2021

Teaching Experience

- Teaching Assistant, Texas Tech University, 2018 – 2024
- Lecturer and Physics Lab Coordinator, University of Management & Technology (UMT), Pakistan, 2008 − 2018

Professional Publications

- Ahmad, S. R. Kachiraju, S. Kunwar, Z. M. Brown, P. Roy, M. Gaddy, V. Kuryatkov, Y. Kwon, A. A. Bernussi, J. P. Murphy, C. T. Ellis, A. P. Chen, and M.-H. Kim, "Temperature-dependent optical constants of vanadium dioxide thin films deposited on polar dielectrics," Opt. Mater. 154, 115733 (2024).
- A. K. Jafari, M. Gaddy, I. Ahmad, S. R. Kachiraju, M. B. Mia, I. Ahmed, S. Nikishin, M.-H. Kim, and A. A. Bernussi, "Effects of silicon dioxide as a polar dielectric on the infrared absorption spectrum of metal-insulator-metal metasurfaces," Mater. Res. Express 10, 015801 (2023).
- S. R. Kachiraju, I. Nekrashevich, I. Ahmad, H. Farooq, L. Chang, S. Kim, and M.-H. Kim, "Coupled surface plasmon-phonon polariton nanocavity arrays for enhanced mid infrared absorption," Nanophotonics 11, 4489 (2022).
- I. Ahmad, M. Ashraf, Y. Khan, E. E. Khawaja, Z. Ali, T. A. Abbas, A. Waheed, and S. M. J. Akhtar, "Effects of preparation conditions on the optical properties of niobium oxide thin films," Inorg. Nano-Met. Chem. 50, 22 (2020).

Professional Associations

- American Physical Society (APS), 2022- Present
- Sigma Pi Sigma (ΣΠΣ), 2024- Present

Awards and Honors

- Doctoral Dissertation Completion Fellowship (TTU, 2024)
- American Physical Society (Division of Condensed Matter) Graduate Student Travel Award (APS, 2024)
- Summer Thesis/Dissertation Research Award (TTU, 2023)
- Graduate Student Research Support Award (TTU, 2023)