

**DEPARTMENT OF PHYSICS**  
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**DEPARTMENT SEMINAR NOTICE**

**SPEAKER:** Dr. Amandeep Kaur  
Woman Scientist, WISE-PDF,  
Department of Physics,  
Panjab University, Chandigarh

**TITLE:** Theoretical Studies of Reaction Dynamics at Near-Barrier  
Energies in Nuclear Systems

**DATE & DAY:** 22 Jan, 2026 (Thursday)

**VENUE:** Seminar Hall

**TIME:** 4.00 P.M.

**Abstract:** This seminar presents a theoretical overview of reaction dynamics in low-energy nuclear systems with emphasis on fusion and decay processes near the Coulomb barrier. It is intended for M.Sc. students, early Ph.D. scholars, and young researchers seeking a clear conceptual understanding of how the basic nuclear properties, interaction potentials and nuclear structure influence the reaction outcomes. The seminar offers a unified theoretical perspective that connects fusion and decay mechanisms across different reaction systems, highlighting the relevance of contemporary modelling approaches and their role in advancing current nuclear physics research.

**All faculty members, research scholars, and students are cordially invited.**

Chairperson

