

Theme meeting on

# Radiation Damage In Nuclear Structural Materials using Accelerators (RaD NuMaT@VECC25)



29<sup>th</sup> October 2025



Radiation damage in structural materials remains a critical challenge in ensuring the safe and long-term operation of nuclear reactors. In line with the current thrust by the Department of Atomic Energy (DAE) on new and advanced reactor systems, VECC is organizing a focused meeting **RaD NuMaT@VECC25** that aims to address this challenge.

This event will highlight VECC's leading role in advancing the ion beam based radiation damage research on materials relevant to both current and next-generation nuclear reactors through its in-house initiatives and collaborative programs.

**RaD NuMaT@VECC25** aims to bring together experimentalists, simulation experts, and materials designers for an invigorating scientific exchange and discussion on recent advancements in India's nuclear materials development program.

## Key Themes:

- Advanced Materials for Current and Next-Generation reactors
- Ion Irradiation Facilities and Techniques
- Radiation induced Microstructural and mechanical property evolution
- Characterization and Quantification of Radiation Damage
- Modeling and Simulation approaches

Participation is by invitation only

**Venue: Ajay Divatia Lecture Hall  
Variable Energy Cyclotron Centre,  
1/AF Bidhan Nagar, Kolkata**

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