

Report on Anveshika Physics Bharat Yatra Mashaal Program

Venue: Govt. College Solan, MRA DAV Public School, Solan

Date: 17th June 2025

As a part of the nationwide *Anveshika Physics Bharat Yatra Mashaal* initiative, spearheaded by the Indian Association of Physics Teachers (IAPT), a vibrant and engaging science outreach program was conducted at MRA DAV Public School, Solan, on **17th June 2025**.

The symbolic torch of the *Bharat Yatra Mashaal*, representing the spirit of scientific inquiry and dissemination, was received with enthusiasm by the school. The event witnessed active participation from nearly **200 students of classes XI and XII**, who were exposed to a series of exciting and insightful demonstrations in physics.

During the program, a variety of physics experiments were conducted to promote hands-on learning and conceptual clarity. Noteworthy demonstrations included:

- **Diffraction and Total Internal Reflection** using laser beams to visualize wave behavior and optical principles.
- Measurement of the **acceleration due to gravity** using the **modeling technique** and the **Tracker software**, highlighting the integration of modern tools with traditional methods.
- Live demonstration of rare and significant instruments such as the **Van de Graaff Generator**, which fascinated students through its practical illustration of electrostatic principles.

The program culminated in a **Physics Quiz**, where students enthusiastically participated and showcased their curiosity and understanding of the concepts demonstrated. The interactive nature of the session ensured deep engagement and a lasting impact on the participants.

The demonstrations were led by:

- **Dr. Anil Thakur**, Associate Professor, Government College Solan
- **Dr. Ishwar Dutt**, Assistant Professor, Government College Solan
- **Dr. Pawan Sharma**, Principal, Government College Dadahu, Sirmaur

The collaborative efforts of these educators created an enriching learning environment for the students.

Following the successful event at DAV School, the program was also organized at **Government College Solan**, where faculty members from the Physics Department and other staff members actively participated and contributed to the program's success.

This initiative greatly benefited the students by bringing physics alive beyond textbooks and fostering a deeper interest in scientific exploration. The program stands as a testament to the effectiveness of experiential learning in promoting scientific temper among young minds.



