

# BHOUTIKI

The Physics Club

Department of Physics

MES's Nowrosjee Wadia College, Pune – 411 001

We are thrilled to announce the inauguration of '**BHOUTIKI**,' the Physics Students Club, on **22<sup>nd</sup> March 2025**. This initiative stands as a testament to the remarkable talent, boundless curiosity, and ambitious spirit of our students, who have come together to create a platform dedicated to exploring the wonders of physics—one of the most fundamental and fascinating sciences.

The choice of this date holds special significance. It marks the birth anniversary of **Prof. Nathan Rosen**, the renowned American-Israeli theoretical physicist who, alongside **Boris Podolsky** and **Albert Einstein**, played a pivotal role in the famous 1935 debate on quantum mechanics, culminating in the publication of the Einstein-Podolsky-Rosen theory. Additionally, it is the birth anniversary of **Robert Andrews Millikan**, the distinguished American physicist celebrated for his iconic oil-drop experiment (1911), which determined the charge of the electron.

Interestingly, this date also commemorates a groundbreaking milestone in modern science. On **22<sup>nd</sup> March 1960**, the first laser was patented under the title "*Masers and Maser Communications System*" by **Arthur Schawlow** and **Charles Hard Townes** of Bell Telephone Laboratories.

Through 'BHOUTIKI,' we aim to honour this legacy of scientific excellence and inspire a new generation of physicists to delve into the mysteries of the universe.

Physics is often described as the language of the universe, unravelling the laws that govern the smallest particles to the vastness of galaxies. It challenges us to think critically, question the known, and venture into the unknown. The **Physics Students Club** is a testament to these very principles, fostering a spirit of inquiry and innovation among students. This club is more than just an organization—it is a **community**, created *by the students, for the students*.

The club operates under the esteemed **Wadian Physics Association (WPA)**, a long-standing organization within the Department of Physics at Nowrosjee Wadia College. Drawing inspiration from the College logo, the club logo was meticulously designed to represent two key elements:

1. **An Open Book:** Symbolizing the quest to understand the fundamental principles of nature, it embodies openness to discovery and the dissemination of scientific knowledge. It also reflects an inclusive approach to education, encouraging curiosity and exploration of physical phenomena.

2. **The Sun:** Representing energy, light, and life itself, the Sun aligns with the essence of physics and its focus on the forces that sustain the universe.

Additionally, the logo features **an atomic model**, illustrating the building blocks of matter and the exploration of the microscopic universe. This element showcases the intricate nature of atoms and their significance in understanding physical phenomena.

The motto, *"प्रकाशस्य प्रसारार्थम्"* embodies a profound philosophy that resonates deeply with the principles of physics and education. The phrase signifies a mission to illuminate minds and encourage scientific thinking. Whether through organizing workshops, engaging lectures, or hands-on experiments, the club aims to empower members to grasp the intricacies of physics and inspire others to explore its wonders.

Through its efforts, the Physics Students Club aspires to create a vibrant and collaborative environment, nurturing curiosity and inspiring future physicists to explore the mysteries of the cosmos.

The term **'BHOUTIKI'** in the Physics Club logo likely signifies 'Physics' in Sanskrit, encapsulating the foundational principles of the natural sciences. It beautifully reflects the essence of exploring the physical universe, spanning phenomena from the microscopic to the cosmic scale. Throughout the year, the club will host a wide variety of activities, each thoughtfully designed to spark curiosity and deepen participants' understanding of the intricate beauty of physics. These activities include:

- Guest Lectures and Seminars
- Workshops and Skill Sessions
- Experimental Demonstrations
- Science Outreach Programs
- Debates and Panel Discussions
- Physics Quiz Competitions
- Project Showcases
- Movie Screenings and Discussions
- Publication of Quarterly Digest
- Experiment Design Competitions
- Peer Teaching and Learning
- Problem-Solving Sessions
- Celebration of Physics Days
- Collaborations and Competitions
- Educational Visits

- **PHYSIQUEST:** The department's flagship annual event.

With this diverse range of initiatives, the Physics Students Club aims to foster a vibrant community that celebrates the pursuit of knowledge and the joy of discovery in the realm of physics.

We sincerely acknowledge the invaluable motivation and support provided by our esteemed Trustees, **Prof. Sachin Sanap Sir** and **Dr. Ashok Chandak Sir**. We are deeply grateful to our Honourable Principal, **Prof. V. V. Chabukswar Sir**; our Vice Principal, **Prof. Dr. B. B. Bahule Sir**; and **Prof. Dr. Samina Boxwala-Kale Ma'am** for their unwavering encouragement and guidance. A special thanks to **Prof. S. G. Jamdade** for their unconditional support and other faculty members of the department in organizing and executing the activities envisioned for this club.

We would also like to extend our heartfelt appreciation to our honoured guest, **Dr. Sneha Pandit, IUCAA** whose inspiring presence on the inauguration day has greatly motivated us all.

Together, we pledge to transform this club into a vibrant and thriving hub for learning, innovation, and collaboration. Let us, as a community, unite in unlocking the mysteries of physics and contributing meaningfully to the advancement of knowledge.