



**Dr. AMBEDKAR COLLEGE, DEEKSHABHOOMI,
NAGPUR**
Department of Physics

REPORT ON NATIONAL PHYSICS DAY CELEBRATION

Name of the Programme	: <u>“National Physics Day Celebration- Model Making Competition”</u>
Date of the Programme	: 21/03/2025
Number of Participants	: 70
Hosted by	: Dept. of Physics
Judges	: Mr. Rohan Thaware & Mrs Pritee Dhanwalkar

Introduction

The Department of Physics at Dr. Ambedkar College, Deekshabhoomi, Nagpur, organized a Model Making Competition for B.Sc. Physics final-year students on March 21, 2023. This event was scheduled as part of the National Physics Day celebrations, which is officially observed on April 24th every year during National & Technology Week. However, due to the academic exam schedule, the department decided to prepone the celebrations to ensure maximum participation.

Objective of the Event

The primary objective of this competition was

1. to encourage students to apply theoretical physics concepts to real-world applications,
2. develop their practical skills, and enhance teamwork and communication.
3. to provide a platform for students to showcase their innovative ideas and technical expertise in creating working models.

Participation and Project Details

The competition featured final-year B.Sc. Physics students, who were divided into groups of 8, with each group being assigned a faculty guide. Under the guidance of their mentors, the students collaboratively worked on two projects per group, focusing on working models that integrated physics concepts into practical applications. The competition served as an opportunity for

students to engage in hands-on learning, refining their technical abilities while exploring creative problem-solving approaches.

Judging Criteria and Jury Panel

The evaluation of the projects was conducted by an esteemed panel of judges, including Mr. Rohan Thaware from the Department of Biotechnology and Mrs. Pritee Dhanwalkar from the Department of Electronics. The assessment of the working models was based on several key criteria:

- **Concept** – The relevance and originality of the idea.
- **Methodology** – The scientific approach and technical execution of the project.
- **Presentation** – The clarity, design, and aesthetics of the model.
- **Communication** – The effectiveness of the students in explaining their project and engaging with the audience.
- **Teamwork** – The level of collaboration and coordination within each group.

The competition witnessed remarkable participation, with students demonstrating impressive scientific acumen and creativity. Among the projects presented, three stood out as the best and were awarded accordingly:

- **1st Prize: Li-Fi (Light Fidelity) Communication System**, which showcased a wireless communication technology using light signals.
- **2nd Prize: Ionic Wind Propulsion**, a project exploring electrohydrodynamic thrust for innovative propulsion systems.
- **3rd Prize: Light Tracking System**, which demonstrated an automated system capable of following a light source for various applications.

The Model Making Competition was a resounding success, providing students with a hands-on learning experience and an opportunity to demonstrate their scientific creativity. The event enhanced technical skills, teamwork, and problem-solving abilities, aligning with the spirit of National Physics Day. The seamless execution of the event was made possible through the dedicated efforts of the organizing team. The competition was efficiently coordinated by Dr. Namrata Pradnyakar, who played a pivotal role as the event coordinator, alongside Dr. Amit Bansod and Dr. Pritee Wakudkar. Their meticulous planning and execution ensured a smooth and engaging competition for all participants. Additionally, all teaching and non-teaching staff, along with the Physics Society core team, contributed significantly to the success of the event through their unwavering support and teamwork. The Department of Physics expresses gratitude to all faculty members, judges, participants, and supporting staff for their contributions to the event. This competition has set a benchmark for future academic and technical engagements, inspiring students to innovate and explore the vast applications of physics in real-world scenarios.

Param Pooja Dr. Babasaheb Ambedkar Smarak Samiti's Dr. Ambedkar College Deekshabhoomi Nagpur Department of Physics Session: 2024-25 (EVEN SEM)			
Roll No.	Name of Student	Year	Sign of Stud.
1	Leesha . Sanjay . Dahot	Sem-6	Bahad
2	Mahima . Sunil . Banaskar	Sem-6	Banaskar
3	Mehandi . Sanjay . Bhopal	Sem-6	Bhopal
4	Nirva . D . Mahajan	Sem-6	MS
5	Parag . C . Sirode	Sem-6	Sirola
6	Pratik . R . Patil . Jai	Sem-6	Pratik
7	Pranav . R . Patil . Jai	Sem-6	Pranav
8	Pratik . A . Patil . Jai	Sem-6	Pratik
9	Pratik . P . Patil . Jai	Sem-6	Pratik
10	Pratik . P . Patil . Jai	Sem-6	Pratik
11	Pratik . P . Patil . Jai	Sem-6	Pratik
12	Pratik . P . Patil . Jai	Sem-6	Pratik
13	Pratik . P . Patil . Jai	Sem-6	Pratik
14	Pratik . P . Patil . Jai	Sem-6	Pratik
15	Pratik . P . Patil . Jai	Sem-6	Pratik
16	Pratik . P . Patil . Jai	Sem-6	Pratik
17	Pratik . P . Patil . Jai	Sem-6	Pratik
18	Pratik . P . Patil . Jai	Sem-6	Pratik
19	Pratik . P . Patil . Jai	Sem-6	Pratik
20	Pratik . P . Patil . Jai	Sem-6	Pratik
21	Pratik . P . Patil . Jai	Sem-6	Pratik
22	Pratik . P . Patil . Jai	Sem-6	Pratik
23	Pratik . P . Patil . Jai	Sem-6	Pratik
24	Pratik . P . Patil . Jai	Sem-6	Pratik
25	Pratik . P . Patil . Jai	Sem-6	Pratik
26	Pratik . P . Patil . Jai	Sem-6	Pratik
27	Pratik . P . Patil . Jai	Sem-6	Pratik
28	Pratik . P . Patil . Jai	Sem-6	Pratik
29	Pratik . P . Patil . Jai	Sem-6	Pratik
30	Pratik . P . Patil . Jai	Sem-6	Pratik
31	Pratik . P . Patil . Jai	Sem-6	Pratik
32	Pratik . P . Patil . Jai	Sem-6	Pratik
33	Pratik . P . Patil . Jai	Sem-6	Pratik
34	Pratik . P . Patil . Jai	Sem-6	Pratik
35	Pratik . P . Patil . Jai	Sem-6	Pratik
36	Pratik . P . Patil . Jai	Sem-6	Pratik
37	Pratik . P . Patil . Jai	Sem-6	Pratik
38	Pratik . P . Patil . Jai	Sem-6	Pratik
39	Pratik . P . Patil . Jai	Sem-6	Pratik
40	Pratik . P . Patil . Jai	Sem-6	Pratik

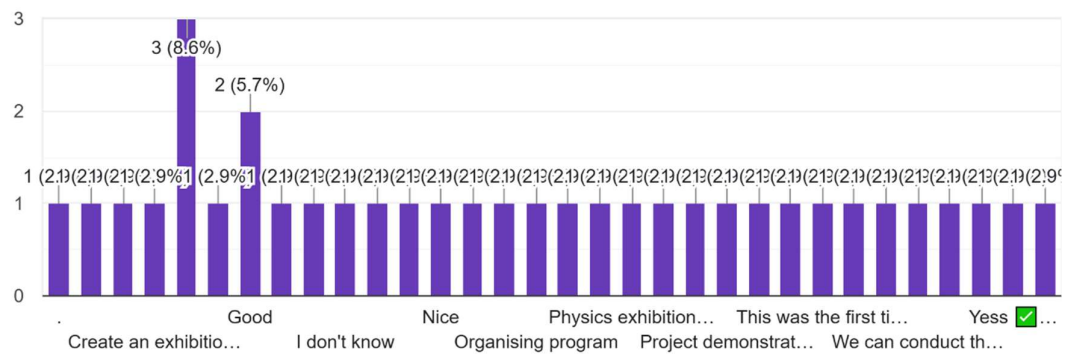


FEEDBACK



5) Your overall feedback regarding how can the Day be celebrated every year?.

35 responses



Outcomes of the event: The Model Making Competition had a profound impact on the participants and the academic environment of the department. After the enriched experience of project making and competition, students were able to:

1. Enhance practical understanding
2. foster essential skills such as problem-solving, teamwork, technical execution, and communication.
3. enhance students' ability to collaborate effectively, manage tasks, and share responsibilities.
4. instil a spirit of research and experimentation, motivating students to pursue further studies or projects in applied physics.