



**Report on the Activity for
Slow Learners in the**

Department of Physics

Academic Year 2023-2024

Maharashtra Gov.No
N.G.C.2002N.M.V./01/2001
M:Shi-3 Date 15 July 2002

Pragatik Shikshan Sanstha's



Savitribai Phule Pune University Affiliated
Identificaton No:P.U./A69/2002

Nutan Art's College Rajapur

Tal.Sangamner, Dist Ahmednagar, Pincode-422605 (Maharashtra)

Introduction:

The Department of Physics at Nutan Art's College, Rajapur organized a focused activity for first-year B.Sc. students identified as "slow learners." This categorization was based on their performance in the internal test, where students scoring below 7 marks were selected for additional guidance. The objective of this initiative was to strengthen their understanding of basic physics concepts and boost their confidence in the subject.

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Activity Plan:

1. Identification of Students:

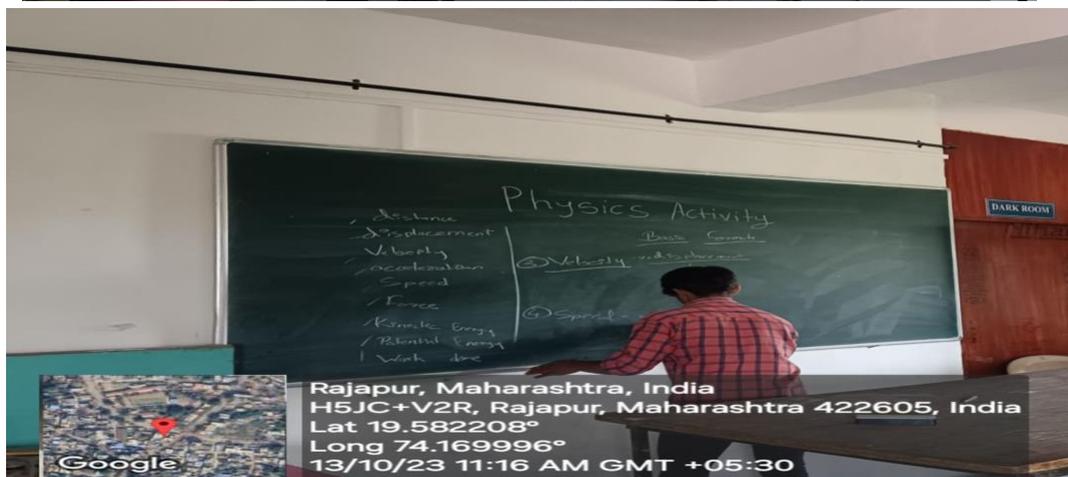
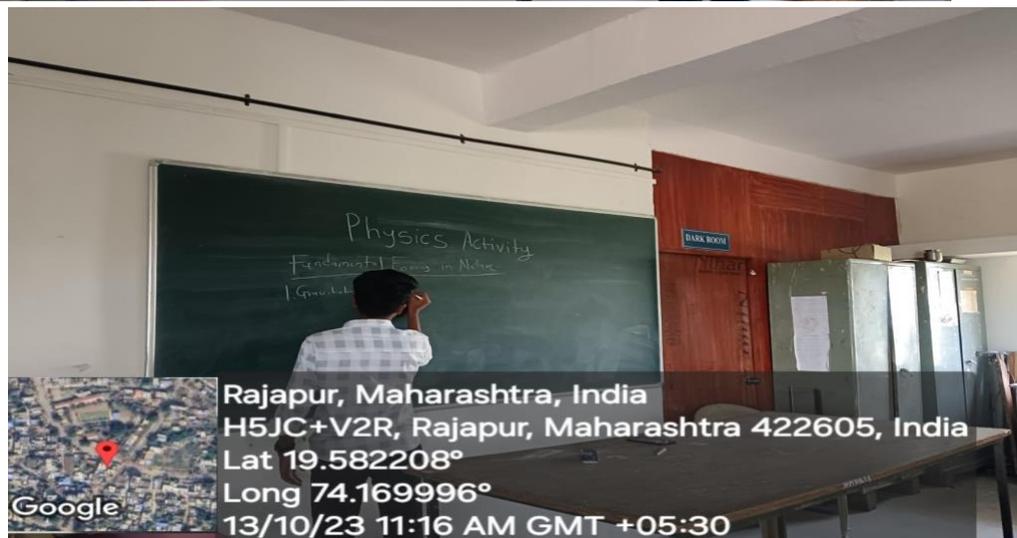
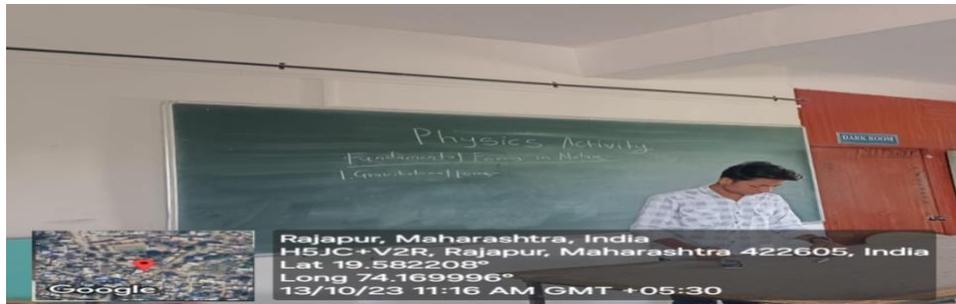
Students scoring below 7 marks in the internal test were categorized as slow learners and were given special attention to address their difficulties in understanding fundamental concepts.

2. Topics Covered:

- Electricity
- Magnetism
- Atomic Models
- Current
- Resistance
- Gravity
- Laws of Motion
- Work
- Force
- Acceleration

3. Mode of Learning:

- Interactive lectures on basic physics topics.
- Distribution of simplified study materials.
- Group discussions to clarify doubts.
- Assignments on fundamental concepts.



4. Student Seminars

After completing the study of these topics, students were encouraged to prepare and deliver short seminars on the topics they learned. This activity aimed to enhance their understanding, build communication skills, and instill confidence.

Benefits of the Activity:

➤ **Improved Understanding:**

The additional focus on basic concepts helped students gain a clearer understanding of physics, laying a strong foundation for further studies.

➤ **Confidence Building:**

Preparing and delivering seminars boosted the students' confidence in their ability to grasp and explain physics concepts.

➤ **Skill Development:**

1) Presentation Skills:

Students developed the ability to communicate scientific ideas effectively. Teamwork and Collaboration: Group discussions fostered teamwork among peers.

2) Critical Thinking:

Analyzing and presenting concepts encouraged critical thinking.

➤ **Motivation for Learning:**

This focused activity motivated slow learners to engage more actively in their studies, reducing their fear of the subject and encouraging them to improve.

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Conclusion

The initiative proved to be a valuable intervention for slow learners, as it not only helped them overcome their academic challenges but also equipped them with essential skills. By covering a range of foundational topics such as electricity, magnetism, gravity, laws of motion, work, force, and acceleration, students were able to develop a comprehensive understanding of basic physics. This activity serves as an effective model for addressing learning gaps and fostering a positive academic environment.

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Diagnostic Test Result

Slow Learner

Sr.no	Student Name	Marks
1	Rupwate Dnyaneshwar Sanjay	04
2	Sangale Pramod Sharad	05
3	Naikwadi Shivam Suresh	05
4	Bhand Arti Chandrakant	06
5	Gadakh Abhishek Daulat	06
6	Bhoknal Rahul Pralhad	06

4/10

Pravali
11/9/2024

Pragatik Shikshan Sanstha's,

Nutan Art's, Commerce And Science College, Rajapur.

Tal : Sangamner , Dist: Ahmednagar.

Internal Exam 2023-2024

Marks :10

SEM :II Class : F.Y.B.Sc. (Physics) Subject : Heat and Thermodynamics (PHY-121)

Name Of Student : [Redacted] Roll No. 32

A) Answer the following

1) State zeroth law of thermodynamics

2 Mark

The Zeroth law of Thermodynamics.

2) Explain the term :

1) Open System , 2) Closed System

2 mark

Open system :- In an system exchange of mass and energy is called open system

closed system In an closed system no exchange only heat are transfer is called closed system.

3) Explain thermodynamics system .

2 Mark

[Redacted area]

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Internal Exam 2023-2024

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01/03/24
Marks: 10

SEM : II Class : F.Y.B.Sc. (Physics) Subject : Heat and Thermodynamics (PHY-121)

Name Of Student : _____ Roll No. 34

A) Answer the following

1) State zeroth law of thermodynamics

2 Mark

when two bodies are in thermodynamic process with each other the third body also in thermodynamic process with third one.

2) Explain the term :

1) Open System , 2) Closed System

2 mark

open system - energy and matter exchange with the surrounding.

closed system - energy exchange with surrounding.

3) Explain thermodynamics system .

2 Mark

the heat + all phase in thermodynamic equilibrium is it the thermodynamics.