



Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
 (Autonomous)

Department of Physics and Electronics

A) A Summary Report of the Activity

1) Title of Programme:	Extension Activity for School Teachers and Students: Demonstration of Basic Science Experiments			
2) Name of Organizing Department/Unit:	Physics and Electronics			
3) Name of the Coordinator(s)/ Convener(s) / Organizer(s) of the Programme:	Chief Organizer: Dr Mahadev Gavhane Convener: Dr. A.A. Yadav Organizing Secretary: Dr. D.V. Raje			
4) Date(s) of the Programme:	28 th and 29 th January 2025			
5) Venue/Mode:	Department of Physics and Electronics			
6) Target Group:	High School Teachers and Students			
7) Number of Participants:	Male	Female	Total	
A separate list with signatures be maintained in the department/Unit	Teaching Staff	03	04	07
	Non-teaching Staff	--	--	--
	Students	--	61	61
8) Name(s) and details of Examiner(s), if any:	Not Applicable			
9) Total Expenditure for the Programme:	Not Applicable			
10) Source of Funding:	Not Applicable			

B) Report

I. Title:

Extension Activity for School Teachers and Students: Demonstration of Basic Science Experiments

II. Introduction:

As part of its outreach initiative, the Department of Physics and Electronics organized an Extension Activity for School Teachers and Students: Demonstration of Basic Science Experiments on January 28th and 29th, 2025. Conducted under the supervision of faculty members, this programme was specially designed for high school students and teachers to promote experiential learning beyond the classroom.

A total of eight engaging science experiments were demonstrated in the physics laboratory, aiming to ignite scientific curiosity and foster a deeper interest in physics among young learners. The activity drew enthusiastic participation from multiple schools, emphasizing the value of hands-on exploration and inquiry-based education.

The primary goal of this initiative was to connect theoretical concepts with real-world applications, enabling students to enhance their practical understanding and develop a scientific mindset through direct interaction and observation.

III. Objectives of the Extension Activity:

- To enhance understanding of the practical applications and real-life relevance of scientific principles.
- To encourage creative exploration of scientific concepts among students.
- To stimulate and sustain interest in science and technology.
- To inspire students to strengthen their scientific skills and deepen their conceptual knowledge.

IV. Details of Participants:

A total of 61 students participated in the science exhibition.

V. Brief Summary of Extension Activity:

The event was specially designed for high school students and teachers, providing an opportunity for hands-on learning and engagement with fundamental scientific principles.

The physics laboratory was thoughtfully prepared for this event, featuring eight carefully selected experiments to engage students in practical science. College students took the lead in demonstrating and explaining the experiments, ensuring that the

concepts were accessible and engaging for the participants. The experiments covered a range of key topics in physics, allowing students to explore and understand the practical applications of various scientific principles. Some of the highlights included:

Screw Gauge and Vernier Caliper: Demonstrating how to measure small dimensions accurately.

Simple Pendulum: Illustrating the concepts of oscillations, period, and the effect of length on the pendulum's motion.

Dispersion of Light through a Prism: Showing how light can be split into its constituent colors through refraction.

Reflection of Light: Exploring the fundamental principles of reflection and how mirrors work.

Magnetometer and Magnets: Understanding magnetic fields

Tuning Fork: Experimenting with sound waves and vibrations produced by tuning forks.

Solar Cooker: Demonstrating the use of renewable energy for cooking purposes.

Throughout the exhibition, students had the chance to interact with the experiments, ask questions, and gain a deeper understanding of how theoretical concepts come to life through practical applications. The event also highlighted the importance of inquiry-based learning, where students actively participate in the discovery process. The exhibition was a tremendous success, with high school students showing great enthusiasm and interest in the experiments, as well as a deeper appreciation for the practical side of science. The hands-on approach not only enhanced their understanding of key concepts but also encouraged them to think critically and creatively about scientific ideas. The event concluded with a sense of achievement, both for the students who participated and for the college students who took the lead in presenting the experiments. This extension activity reinforced the department's commitment to bridging the gap between classroom learning and real-world application, fostering a greater interest in science among young learners.

VI. Conclusion, with Feedback on the Programme:


The extension activity proved to be an invaluable learning experience for students, enabling them to explore scientific concepts more deeply. It challenged

students to think critically, solve problems, and engage with new ideas-skills that are crucial not only in the field of science but also in various other areas of life.

VII. Any Appendix:

List of Students

Date: 30.01.2025


HEAD
Department of Physics & Electronics
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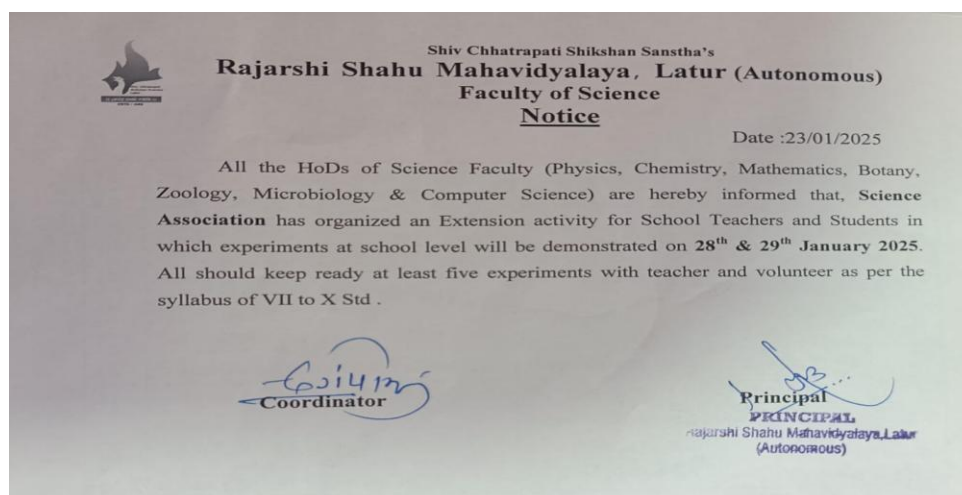

PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latour
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C) Geotagged Photographs:



Students Demonstrating High School-Level Experiments

D) Notice to the students:




Date: 28 & 29 Jan 2025

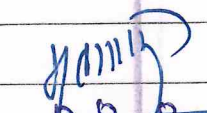
Department of Physics & Electronics
Basic Physics Experiments: Extension Activity to the high school Student & teachers

Sr No.	Name of the student	Class	Name of the teacher	Name of the school	Sign	Remarks
1	Aishwarya Shinde	7 th	Tijamata	Tijamata Kanya Prashab	Dishwarya	
2	Pratikta Sawant	7 th	miss Takmulke Manisha	—//—	Pratikta	
3	Smarnika Kagade	7 th	—//—	—//—	Pratikta	
4	Gauravi Wangwad	7 th	—//—	—//—	Gauravi	
5	Bhakti Surwase	7 th	—//—	—//—	Bhakti	
6	Samikanti R Suryawanshi	7 th	—//—	—//—	Samikanti	
7	Sheavani - D. Grampure	7 th	—//—	—//—	Sheavani	
8	Aditi shinde	7 th	—//—	—//—	Aditi	
9	Shruti Mhetre	7 th	—//—	—//—	Shruti	
10	Anushka chavan	7 th	—//—	—//—	Anushka	
11	Shamal Kambale	7 th	—//—	—//—	Shamal	
12	Gauravi Mandumle	7 th	—//—	—//—	Gauravi	
13	Pragati Jadhav	7 th	—//—	—//—	Pragati	
14	Shrushti Nikam	7 th	—//—	—//—	Shrushti	
15	Shrushti shinde	7 th	—//—	—//—	Shrushti	
16	Samrudhi Shinde	7 th	—//—	—//—	Samrudhi	
17	Sumiyya Pathan	7 th	—//—	—//—	Sumiyya	
18	Samrudhi Grame	7 th	—//—	—//—	Samrudhi	
19	Samiya Sayyed	7 th	—//—	—//—	Samiya	
20	Afsha mutani	7 th	—//—	—//—	Afsha	
21	Sai Sandua	7 th	—//—	—//—	Sai	
22	Bhakti Mogarge	7 th	—//—	—//—	Bhakti	
23	Shravani Manoj kshirsagar	7 th	—//—	—//—	Shravani	
24	Aarti Balaji Tawade	7 th	—//—	—//—	Aarti	
25	Srushti pandit Surwase	7 th	—//—	—//—	Srushti	
26	Anjali Surwase	7 th	—//—	—//—	Anjali	
27	Harshada Bhadale	7 th	—//—	—//—	Harshada	
	Renuka Surwase			—//—	Renuka	

Sl. No.	Name of the student.	Class	Name of the teachers	Name of the school.	Sign	Remarks
28	Anagha Vinayak Badgire	7th	"	"	Anagha	
29	Mansi Shivaji Gitsam	7th	"	"	Mansi	
30	Sanika Santosh putwad	7th	"	"	Sanika	
31	Veishnavi Nadagode	7th	"	"	Vaishnavi	
32	Janhavi Vinod Kallekar	7th	"	"	Janhavi	
33	Bhavika Ravi Sawant	7th	"	"	Bhavika	
34	Afifa Tayyabali Shaikh	7th	"	"	Afifa	
35	Vedika Shrikant Madhe	7th	"	"	Vedika	
36	Arohi Dhondiram Bhingole	7th	"	"	Arohi	
37	Arya Kamble	7th	"	"	Arya	
38	Shraddha Kodale	7th	"	"	Shraddha	
39	Pamila Shailesh Kumar Kamble	7th	"	"	Pamila	
40	Aditi Amar Waghmare	7th	"	"	Aditi	
41	Janaya Shivhar Kore	7th	"	"	Janaya	
42	Banjali Lahu Suryawanshi	7th	"	"	Banjali	
43	Prajakta Sandeep Puneekar	7th	"	"	Prajakta	
44	Snehal Sachin Malwade	7th	"	"	Snehal	
45	Ananya Shailesh Amle	7th	"	"	Ananya	
46	Gargi Sunilkumar Dope	7th	"	"	Gargi	
47	Sai PradiP Patil	7th	"	"	Sai	
48	Anushka Naresh Mane	7th	"	"	Anushka	
49	Anushka Nitesh Bhutkar	7th	"	"	Anushka	
50	Samiksha Bhutkar	7th	"	"	Samiksha	
51	Sandus Gitanjali Dhanraj	7th	"	"	Sandus	
52	Amrifa Boyane	7th	"	"	Amrifa	
53	Akshara Wagholikar	7th	"	"	Akshara	
56	Pratiksha Sonkamble	7th	"	"	Pratiksha	
57	Mrunali Shinde	7th	"	"	Mrunali	

Sl. No.	Name of the student	Class	Name of the teachers	Name of the school	Sign	Remarks
58	Vaidehi Vishnu Kulkarni	7th	_____	_____	Vaidehi	
59	Bhargavi Satish Vibhute	7th	_____	_____	Bhargavi	
60	Sanvi Sachin Raisal	7th	_____	_____	Sanvi	
61	Paranitu Nagnath Kale	7th	_____	_____	Paranitu	
62	Jyoti Kishor Machale	7th	_____	_____	Jyoti	
63						
64						
65						


 HOD
 physics and Electronics
HEAD
 Department of Physics & Electronics
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 Principal
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