

Marathwada Shikshan Prasarak Mandal's
Vinayakrao Patil Mahavidyalaya, Vaijapur

Staff Academy

Organised Lecture on "Use of Physics in Day Today Life"

by Dr. B.G. Lone, Head, Department of Physics, on Tuesday, 4th October, 2016

REPORT

The Staff Academy invited Dr. B.G. Lone, Head, Department of Physics to deliver a lecture on Use of Physics in Day Today life. The introductory speech was given by Dr. Sunil Dahale who welcomed the speaker as well as the faculty members and invited Dr. B.G. Lone to address the staff.

Dr. B.G. Lone at the outset of his discourse stated the importance of physics in our everyday life. He shared the interesting facts of physics. He stated that on this "Living Planet" that we call Earth, there are lots of interesting events that take place. These events are around us, which we see, or do, or experience regularly. At some point in time, our curiosity would have pushed us to ask questions about what's going on? How does that happen? He pointed out that, the answer to all these questions is "Physics." In fact, Physics governs our everyday lives in one way or the other. In his oration he gave ten examples of Physics in everyday life:

Physics gets involved in your daily life right after you wake up in the morning. The buzzing sound of an alarm clock helps you wake up in the morning as per your schedule. The sound is something that you can't see, but hear or experience. Physics studies the origin, propagation, and properties of sound. It works on the concept of Quantum Mechanics.

He pointed out the role of Physics right after one wakes up in the morning and start preparing for one's school/office, needs an ironed cloth, and that's where Physics comes into play. The steam iron is such a machine that uses a lot of Physics to make it go. The foremost principle of Physics used in the steam iron is "Heat." Heat, in Thermodynamics, is a type of energy transfer from a warmer substance to a colder one. Ironing works by having a heated metal base- the soleplate.

Now, when a person gets ready for your office/school, whatever medium of commutation is, you certainly have to walk up to a certain distance. He can easily walk is just because of Physics. While you have a walk in a park or on a tar road, you have a good grip without slipping because of a sort of roughness or resistance between the soles of your shoes and the surface of the road. This resistance, which is responsible for the grip, is called "Friction" or "Traction." However, when a banana peel comes under your foot, you suddenly fall. He told that it's due to the reduced friction between shoes and the surface of the road because of the slippery banana peel.

Next example he stated was that of a Ball Point Pen is your weapon. Had Physics not been there, you would not have able to write with a Ball Point Pen on a paper. In this case, the concept of gravity comes into play. As your pen moves across the paper, the ball turns and gravity forces the ink down onto the top of the ball where it is transferred onto the paper.

When you get tired of work or studies, listening to music comes in handy. He also pointed out how the ear phones work. The concept of magnetism and sound waves are involved in the science of your headphones/earphones. When you plug your headphones/earphones into an electrical source, the magnet in your headphones/earphones creates an electromagnetic field, which ultimately results in sound waves.

Another important example he gave that is of seat belt. When we tighten our car seat-belt, it works on the concept of "Inertia." In case of a car collision, your seat-belt helps prevent our body from moving in a forward direction; as our body resists being stopped because of inertia of motion.

The phenomenon of "Selfie" has engulfed people of every age group. The Lens used in a camera works on the principle of Optics. The set of convex lenses provide the camera with an image outside of the camera.

Cell phones have become like Oxygen gas in modern social life. Hardly, anyone would have been untouched by the effects of a cell phone. Whether conveying an urgent message or doing incessant gossips, cell phones are everywhere. It works on the principle of electricity and the electromagnetic spectrum, undulating patterns of electricity and magnetism.

Whether in cell phones, cars, torches, toys, or any other appliance, batteries act as saviours of electricity. Batteries work on the principle of capacitance. Since the late 18th century, capacitors have been used to store electrical energy. Benjamin Franklin was the first to coin the phrase "battery" for a series of capacitors in an energy store application.

To check the oversteering vehicles, police often use Doppler Radars. Doppler Radars work on the principle of the Doppler Effect. The Doppler Effect is nothing but a change in the pitch of a sound when the source of the sound is moving relative to the listener. It is because the frequency of the sound wave changes as the source of sound moves closer to or farther from the listener.

Thus Dr. Lone shared in his discourse, interesting facts about his subject which was not only informative but entertaining one which was very much enjoyed by all faculty members. The session was well attended by all faculty members. The programme came to end with the proposing of vote of thanks by Mr. K.P. Bholane.


Dr. B.R. Dhapase


Principal
PRINCIPAL
Vinayakrao Patil Mahavidyalaya
Vajapur, Dist. Aurangabad.

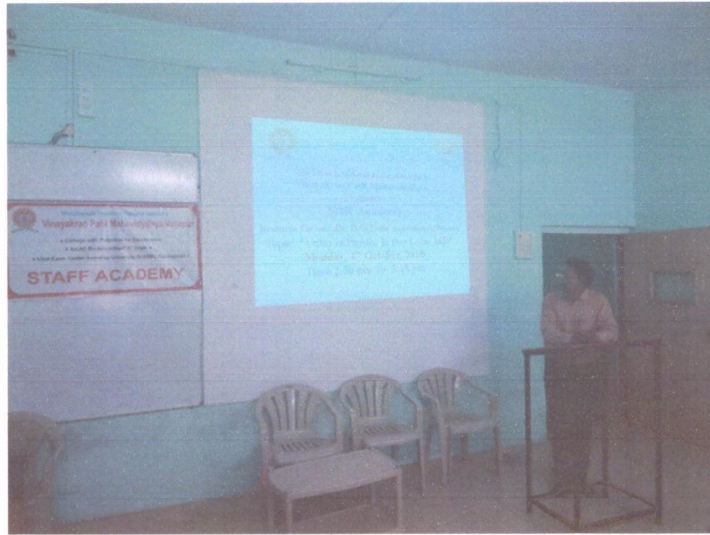
Marathwada Shikshan Prasarak Mandal's

Vinayakrao Patil Mahavidyalaya, Vaijapur

Dr. B.G. Lone, Head, Department of Physics, delivering a lecture on

“Use of Physics in Day Today Life”

on Tuesday, 4th October, 2016



M.S.P Mandal's

Vinayakrao Patil Mahavidyalaya, Vaijapur

Lecture Series

Organised by Staff Academy

Name of Speaker : Dr. B.G. Lone (Department of Physics)

Topic : Use of Physics in Day Today life

Time: 2:30- 3:15

Date: 04/10/2016

Sr. No.	Name of Teacher	Department	Signature
1.	Mes. Shelke V.D	BBA	
2.	Miss. Teke. U.A.	BCA	
3.	A.K. Sakharde	Sociology	
4.	R.B. Kolkar	Marathi	
5.	Dr. D.P. Khillari	Marathi	
6.	B.J. Gajke	Marathi	
7.	Dr. K.P. Bholar	Commerce	
8.	Dr. L.D. Puri	Commerce	
9.	Mr. O.H. Sarage	Physics	
10.	Mr. K.S. Ban	History	
11.	Dr. Dadasaheb Salunke	English	
12.	Dr. Lone B.G.	Physics	
13.	Dr. Chauthari S.S.	Library	
14.	Mr. A.D. Godse	Maths	
15.	Mr. S.H. Vile. N.S.	Office	
16.	Dr. S.M. Balar	Economics	
17.	Dr. S.K. Rathod	Sociology	
18.	Mr. A.R. Dulkarne	BCS	
19.	A. V. Gaikwad	B.Sc. Comp sci.	
20.	G.N. Patil	BES	
21.	B.R. Dhapse	Hindi	
22.	Sumil Dahale	Hindi	
23.	Sarvai A.B.	Library	
24.			
25.			
26.			
27.			
28.			
29.			
30.			
31.			
32.			
33.			
34.			
35.			
36.			
37.			
38.			
39.			

Dr. B.R. Dhapse (Coordinator)

PRINCIPAL
Vinayakrao Patil Mahavidyalaya
Vaijapur, Dist. Aurangabad.