

Report on “Gaming with Physics”

A three days-long interactive workshop for Intermediate school students ‘**Gaming with Physics**’ was organized by the Department of Physics, under the convenorship of Ms. Niti Agrawal, Teacher-In-Charge, during 4th – 6th August 2022 under the aegis of DBT Star College Scheme. Twenty-five (25) students studying in class XIIth of K.L.K Saraswati Bal Mandir, Mehrauli along with their P.G.T Physics, Mr. Prabhakar Mishra, participated in this workshop.

The aim of the workshop was to boost the interest of the young minds in the fundamental of physics and gives them a rich learning experience by observing, performing experiments and faculty interaction. The participants were given hands on training on different instruments.

On Day 1, the students learnt measurement using instruments like Screw Gauge, Vernier Calliper, spherometer, AC and DC voltage measurement using Digital Multimeter, use of Voltmeter and Ammeter. They were familiarized with the concepts of error and were taught how to analysis errors in the measurement system.

On Day 2, students learnt about basic components such as Transformer, diode, Carbon resistor, LED, Zener diode and breadboard which are useful in designing many electronic circuits. They made simple electronic circuits and studied them. They were also made familiar with the Cathode ray Oscilloscope (CRO) which is a very important & versatile instrument in Electronics.

On Day 3, students did Dispersion experiments using Prism. Also, they learnt about Single slit diffraction using LASER. Further, focal length of a Lens using biconvex lens was also learned by them.

As a further guidance to the students, a comprehensive list of “Physics Projects” was also given to the them which would be very helpful as class XII school students need to make Projects.

Certificates were distributed to students at the end of the workshop along with motivational reading books. Celebrating the theme of ‘**Har Ghar Tiranga**’ college **distributed Indian Flag Badges** to the participants, teaching and non-teaching staff and workshop ended with singing National Anthem by all.

The workshop received an overwhelming response from the students. The workshop gave them a golden opportunity to learn by performing experiments which was unfortunately missed in their online teaching due to Covid-19 pandemic.

The organizers are very thankful to Prof. Rabi Narayan Kar (Principal, SLC) for the support and guidance throughout the workshop.

The department of physics is thankful to Dr Ashu Gupta, overall DBT coordinator and Dr Monika Goyal, Physics DBT coordinator for their support in conducting this workshop.



SLC(University of Delhi)

Shyam Lal College

Department of Physics

Under the aegis of DBT Star College Scheme|

is organizing an

Interactive Workshop for Intermediate School Students

on

GAMING WITH PHYSICS

The workshop aims at boosting the interest of the young minds in fundamentals of physics and give them a rich learning experience by observing, performing experiments and faculty interaction.

Date: 4 – 6 August, 2022 | **Time:** 10:00 AM to 01:00 PM

Venue: Department of Physics, Shyam Lal College

Day 1

Familiarization with different measuring Instruments and Error Analysis

Day 2

Designing simple Electronic Circuits

Day 3

Understanding Optics through Experiments

Niti Agrawal

Convenor, TIC
Physics Department

Dr Monika Goyal

Physics DBT Coordinator

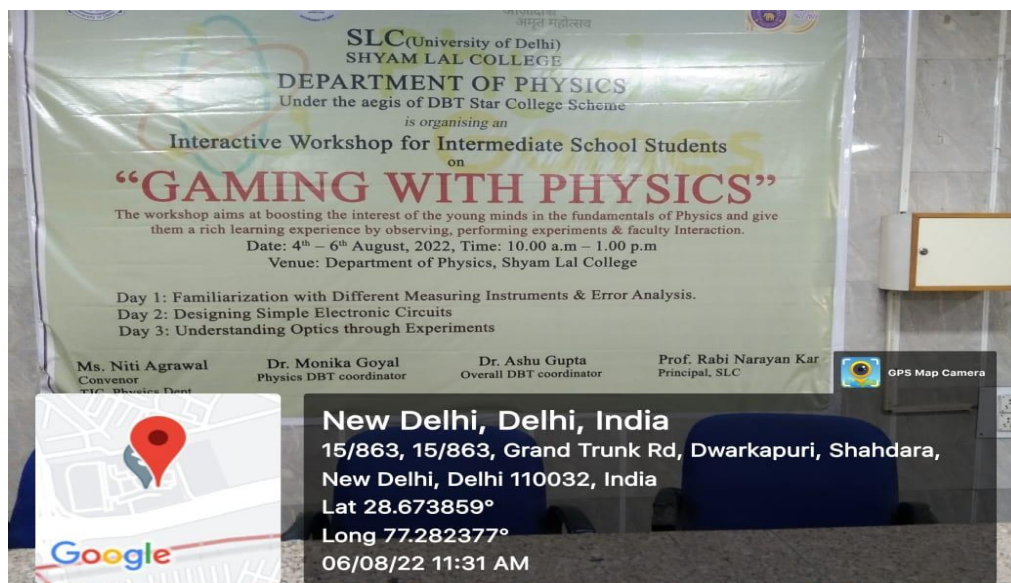
Dr Ashu Gupta

Overall DBT Coordinator

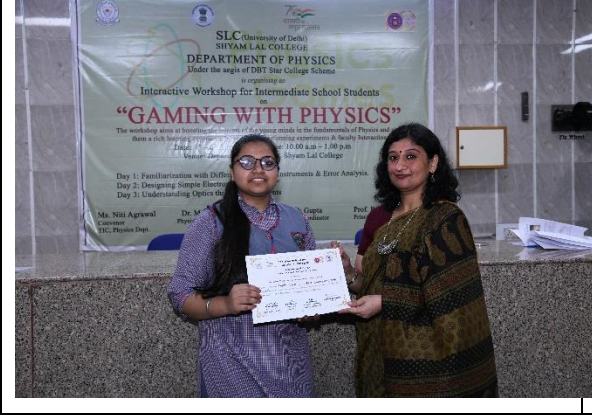
Prof Rabi Narayan Kar

Principal

Glimpses of the workshop





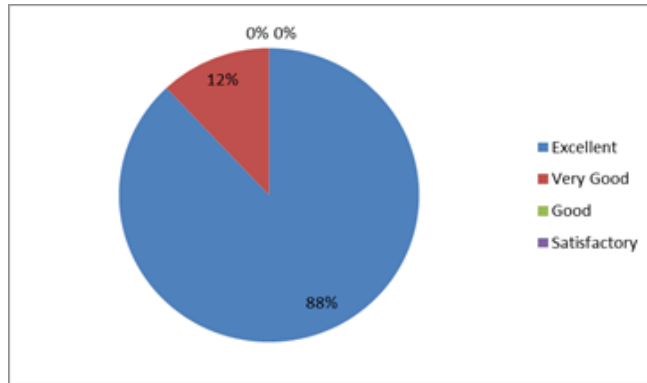


New Delhi, Delhi, India
15/863, 15/863, Grand Trunk Rd, Dwarkapuri, Shahdara,
New Delhi, Delhi 110032, India
Lat 28.673866°
Long 77.282399°

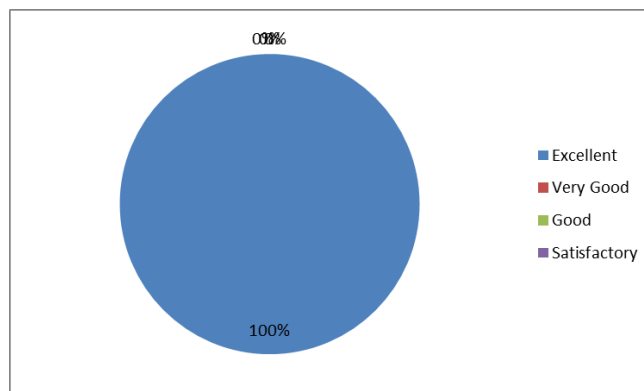
Workshop Feedback

To evaluate the success of the event, a feedback form was circulated amongst the participants. 100% of the participants found the workshop to be very useful and stated that the delivery of laboratory instructions and teaching methods by the faculty members presented were very clear to everyone and all of them would like to attend such events in the near future as well.

- Delivery of laboratory instructions and teaching methods



- Are you overall satisfied with the workshop?



- Would you like to attend more such workshop in future?

