Physics with Python

Date of the Program: 6-7 February 2023

No. of Participants: 30 students+ 1 teacher

Organized by: Illuminati Physics Society

Speaker Name with contact Details: Dr. Ashutosh Vishwa Bandhu, Ph: 8800240545. Else all speakers including host were students of physics hons.

The Physics with Python workshop was a comprehensive learning event aimed at introducing the principles of physics using the power of Python programming. Participants were given hands-on experience in simulating various physical phenomena and analyzing real-world data.

The workshop started with the simulation of the Galton board was presented, allowing participants to see how randomness can lead to patterns in physical systems.

Then was the demonstration of projectile motion simulation, which gave participants a deeper understanding of the motion of objects under the influence of gravity.

Next, participants were introduced to the analysis of exoplanet lightcurves. They learned how to use Python to extract important information about exoplanets from their lightcurves and analyze their characteristics. They were also shown how to process FITS images, a common format for astronomical data, and use Python to manipulate and visualize the data.

Finally, the workshop ended with a demonstration of how to build a decision tree model to make predictions in physics. Participants learned how to use this machine learning technique to analyze and make predictions based on physical data.

In conclusion, the Physics with Python workshop provided participants with an interactive and engaging experience in learning the principles of physics. The hands-on demonstrations and activities allowed them to apply the concepts they learned to real-world situations and provided a foundation for further exploration and research in physics.

Poster

Photograph

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Attendance

Attendence
⇒ Physics with Python ⇐

1. Anjali 26125	Vyom 26005
Nupur 15509	Dija 26025
Kaushal 26050	Chhavi 26023
Fathima 25555	Swayam 26075
Paari 26004	Neelaksha 26073
Akshita 26063	Dhruv 26080
Utkarsh 26082	Gokul 26044
Samridhi Wani 25079	Sumit 26008
Varsha 25092	
Dilip 28057	
Diyansha 28031	
Kunal Verma 25073	
Aman Sagar 25086	
Shatrughan 25084	
Nitish Kumar 25023	
Akshay 25019	
Devesh chauhan 25011	
Kanchan Choudhary 26072	
Rashika Sahu 26074	
Diksha kumari 26070	
Twinkle 26006	
Manish 20101	
SUMIT KUMAR 26035	
Tushar Rana 25064	
Sajal Rana 26120	
NISCHAL CHETTRI 26020	
Amit kumar 26008	
Siddharth Gundia 15023	

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https://www.instagram.com/p/CoH-K6_y6oM/?igshid=YmMyMTA2M2Y