DEPARTMENT OF PHYSICS, UDALA COLLEGE, UDALA

REPORT

The departmental seminar entitled **"The motion of the planets"** for the academic session 2023-24 was held on dt- 11-12-2023 in the Seminar Hall of the college. This insightful event was inaugurated by the esteemed Principal, Dr. Jatin kumar Mohakud by lighting the ceremonial lamp. The meeting was presided over by the HOD, Miss Snigdha Agarwalla. The keynote address of the topic was delivered by Gajendra Hansdah, Lect. in Phy. The technical session included paper presentation by +3 2nd year students of the department. The seminar ended with the concluding summaries of the topic lucidly with vote of thanks by Gajendra Hansdah, Lect. in Physics.

Participants in the Seminar:-

I. Chief Guest:- 11.12.23

II. Faculties of the Dept.:- H.O.D 11/12/23

Gajendra Hansdah 11/12/23


DEPARTMENT OF PHYSICS
SEMINAR
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Terms involving in motion of planets
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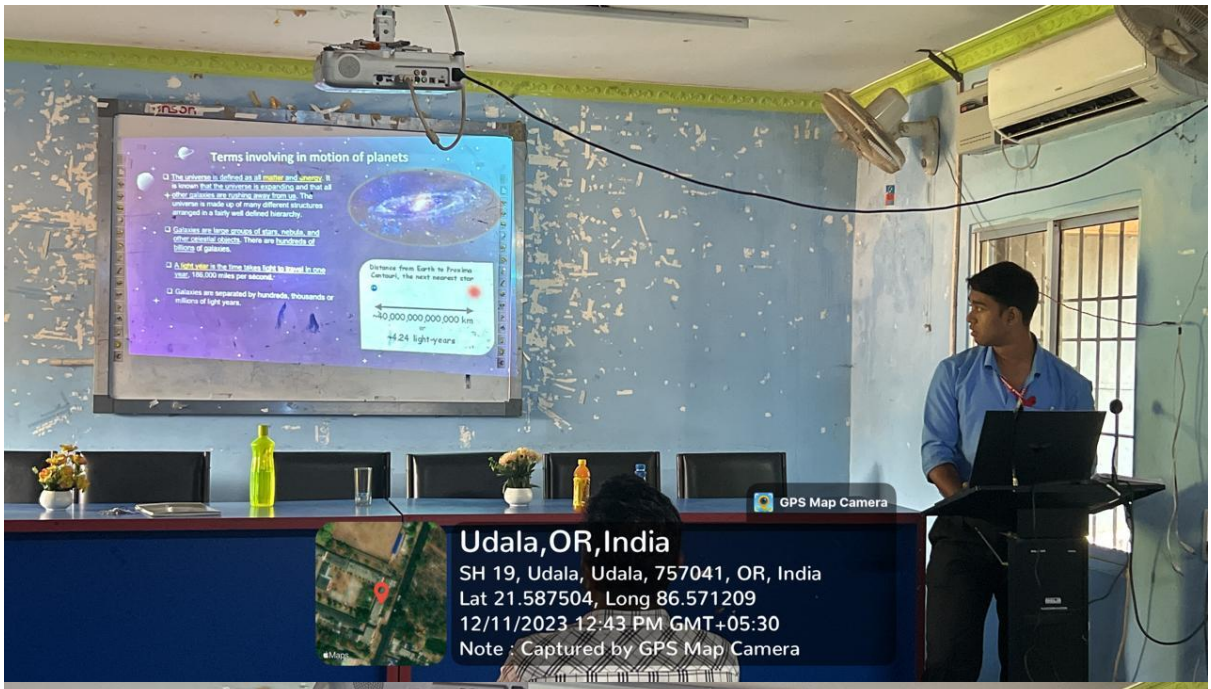
Terms involving in motion of planets
The universe is defined as all matter and energy. It is known that the universe is expanding and that all other galaxies are rushing away from us. The universe is made up of many different structures arranged in a fairly well defined hierarchy.
Galaxies are large groups of stars, nebula, and other celestial objects. There are hundreds of billions of galaxies.
A light year is the time takes light to travel in one year. 186,000 miles per second.
Galaxies are separated by hundreds, thousands or millions of light years.
Distance from Earth to Proxima Centauri, the next nearest star
~40,000,000,000,000 km
or
~4.24 light-years
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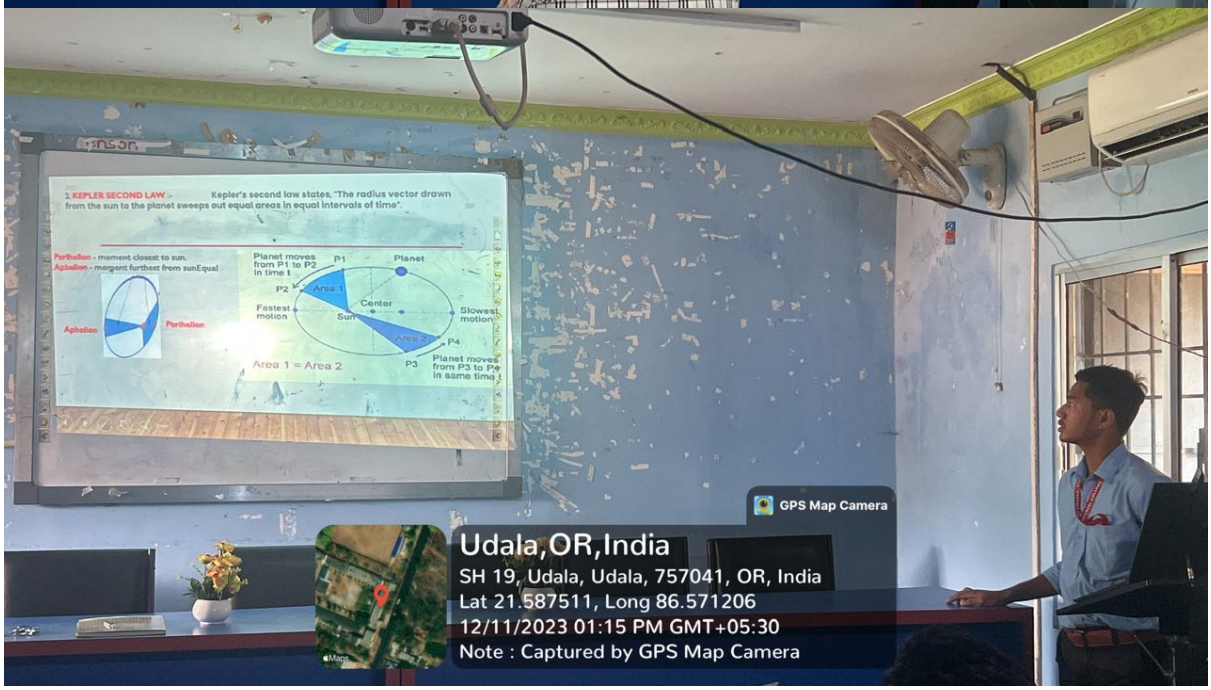
2.KEPLER SECOND LAW :- Kepler's second law states, "The radius vector drawn from the sun to the planet sweeps out equal areas in equal intervals of time".
Perihelion - moment closest to sun.
Aphelion - moment furthest from sunEqual
Aphelion
Perihelion
Planet moves from P1 to P2 in time t
P1
Planet
P2
Area 1
Center
Sun
Fastest motion
Slowest motion
Area 2
P4
P3
Area 1 = Area 2
Planet moves from P3 to P4 in same time t
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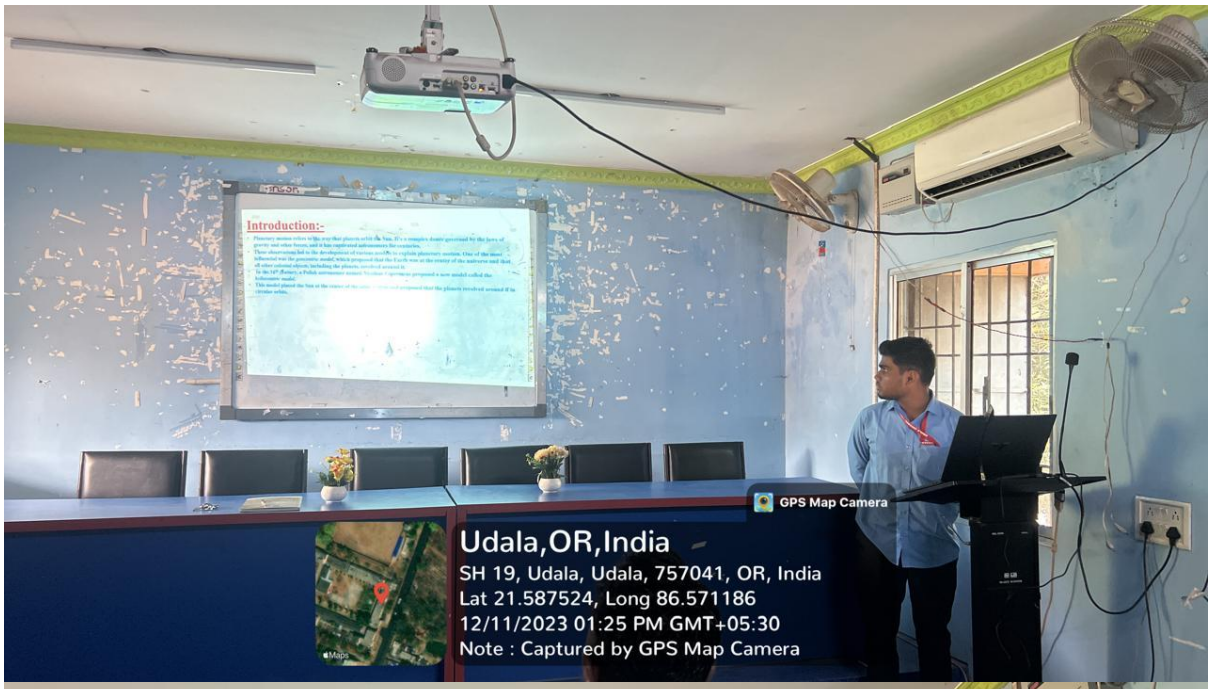
Introduction:-
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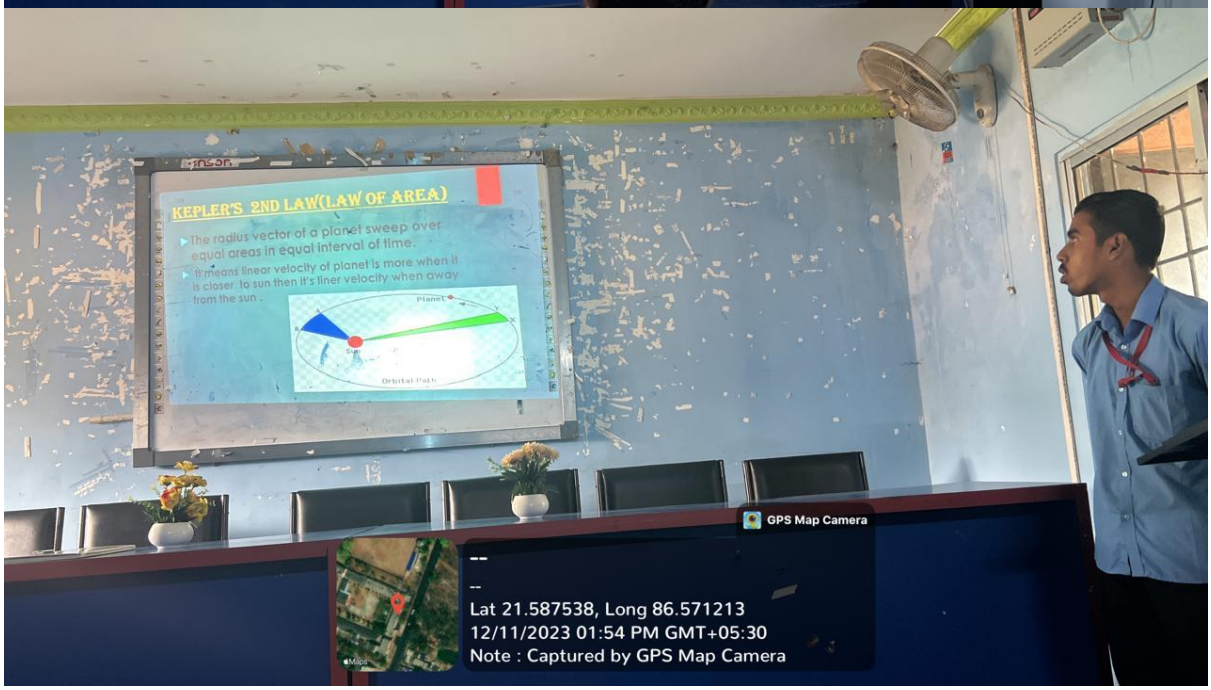
KEPLER'S 2ND LAW(LAW OF AREA)
The radius vector of a planet sweep over equal areas in equal interval of time.
It means linear velocity of planet is more when it is closer to sun then it's liner velocity when away from the sun .
Planet
Sun
Orbital Path
GPS Map Camera
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