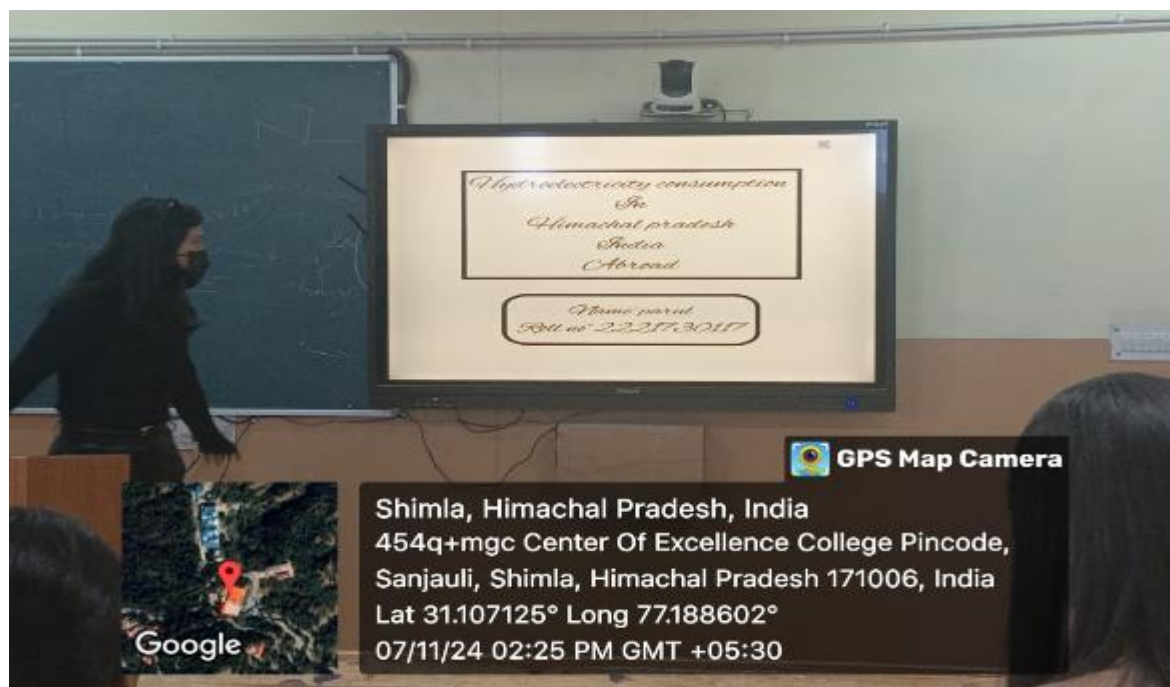




PowerPoint presentations/Blended Teaching/ Flipped Classroom approach Report: 2024-25



PowerPoint presentations by students of **B.Sc. III Year (SEC)** were organized by the **Department of Physics** under the supervision of **Dr. Kirti Singha**. This activity is a **regular academic practice of the Department**, conducted every year with the objective of **inculcating self-confidence among students** and **enhancing their communication and presentation skills**.



The slide displays the following text:

*Thermal electricity consumption in
Himachal Pradesh
India
Abroad*

Thane parit
Roll no 2221730117

GPS Map Camera

Shimla, Himachal Pradesh, India
454q+mgc Center Of Excellence College Pincode,
Sanjauli, Shimla, Himachal Pradesh 171006, India
Lat 31.107125° Long 77.188602°
07/11/24 02:25 PM GMT +05:30

Google



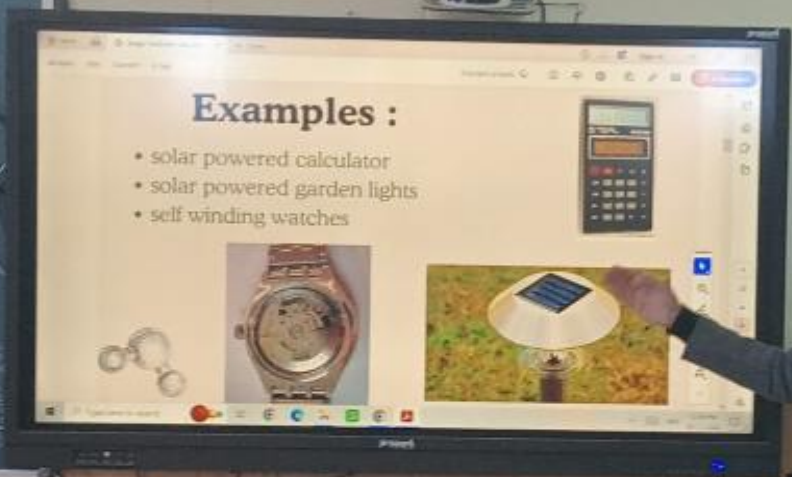
The slide displays the following table:

Rank	Power station	Country	Capacity (MW)
1	Sihwa Lake Tidal Power station	South Korea	254
2	La Rance Tidal Power station	France	240
3	Annapolis Royal Generating Station	Canada	20
4	Xiangxia Tidal Power Station	China	3.2

GPS Map Camera

Shimla, Himachal Pradesh, India
454q+mgc Center Of Excellence College Pincode,
Sanjauli, Shimla, Himachal Pradesh 171006, India
Lat 31.107256° Long 77.188665°
08/11/24 02:22 PM GMT +05:30

Google



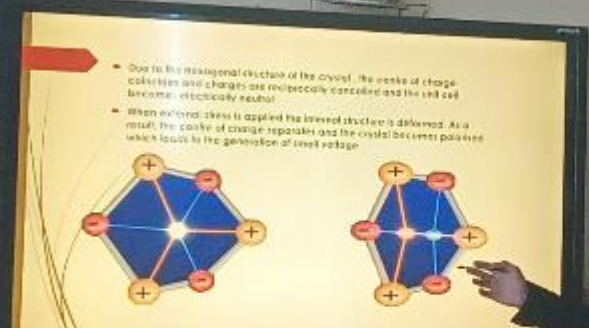
Examples :

- solar powered calculator
- solar powered garden lights
- self winding watches

GPS Map Camera

Shimla, Himachal Pradesh, India
 454q+mgc Center Of Excellence College Pincode,
 Sanjauli, Shimla, Himachal Pradesh 171006, India
 Lat 31.107108° Long 77.189008°
 28/11/24 12:39 PM GMT +05:30

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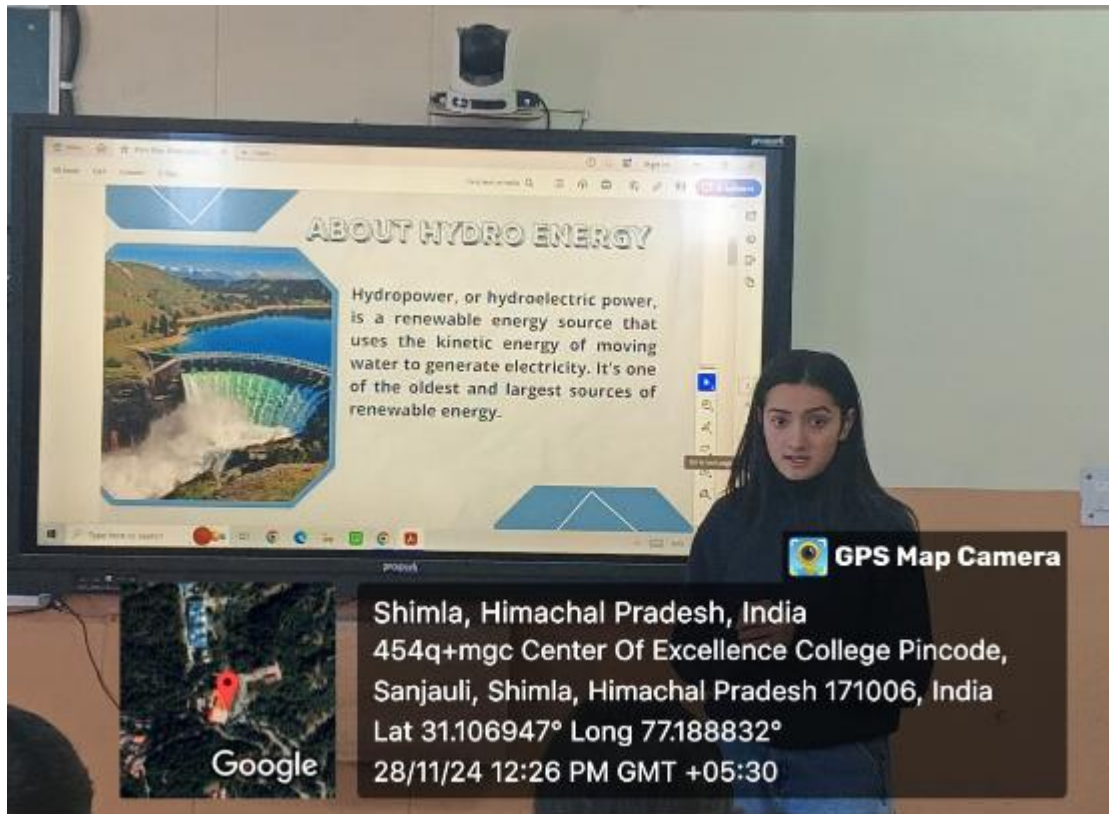
Due to the hexagonal structure of the crystal, the centre of charge collection and charges are molecularly cancelled and the unit cell becomes electrically neutral.

When external stress is applied the hexagonal structure is deformed. As a result the centre of charge separates and the crystal becomes polarized which leads to the generation of useful voltage.

GPS Map Camera

Shimla, Himachal Pradesh, India
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 Sanjauli, Shimla, Himachal Pradesh 171006, India
 Lat 31.10702° Long 77.188816°
 07/12/24 01:06 PM GMT +05:30

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ABOUT HYDRO ENERGY

Hydropower, or hydroelectric power, is a renewable energy source that uses the kinetic energy of moving water to generate electricity. It's one of the oldest and largest sources of renewable energy.

GPS Map Camera

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 Sanjauli, Shimla, Himachal Pradesh 171006, India
 Lat 31.106947° Long 77.188832°
 28/11/24 12:26 PM GMT +05:30

Google



PHYSICS

Presentation on Electromagnetic energy harvesting and Linear generators

by KANCHAN SHARMA
 BSC 3rd year (Physics)
 Roll. No. - 22451084
 Univ. Roll. No. - 2222730017

GPS Map Camera

Shimla, Himachal Pradesh, India
 454q+mgc Center Of Excellence College Pincode,
 Sanjauli, Shimla, Himachal Pradesh 171006, India
 Lat 31.106657° Long 77.188576°
 28/11/24 12:37 PM GMT +05:30

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TIDAL ENERGY

Shalini Verma
730153

GPS Map Camera

Shimla, Himachal Pradesh, India
454q+mgc Center Of Excellence College Pincode,
Sanjauli, Shimla, Himachal Pradesh 171006, India
Lat 31.106895° Long 77.188662°
08/11/24 02:18 PM GMT +05:30

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OSMOTIC POWER AND OCEAN BIOMASS

EXPLORING RENEWABLE ENERGY SOURCES

PRESENTED BY MOHET BANSAL
ENRROLL: 222170004

GPS Map Camera

Shimla, Himachal Pradesh, India
454Q+MGC Center Of Excellence College Pincode, Sanjauli, Shimla, Himachal Pradesh
171006, India
Lat 31.106996°
Long 77.188576°
19/10/24 01:13 PM GMT +05:30

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The initiative also aims to promote an **experiential learning environment** and to introduce students to **Blended Teaching or Flipped Classroom approaches**, where learners actively engage with content preparation and peer learning. This practice has proved to be highly beneficial in improving students' subject understanding, articulation abilities, and overall academic confidence, thereby contributing significantly to their holistic development.

Report Compiled and submitted by: Dr. Kirti Singha