





**Learning Objectives**  
 with 3 introductions

- 1.1 Concept of Management – Definition, Management Process and Management Functions, Purposes, Importance and Characteristics of Management.
- 1.2 Levels of Management & Functions of different levels of Management, Objectives of Management.
- 1.3 Role of a Manager, Managerial Skills.
- 1.4 Management in Schools as well as in NGOs, etc.

 **GPS Map Camera**



USTM  
 Science



Central  
 Auditorium

**Google**

**Baridua 9th Mile, Meghalaya, India**

4R2W+VM2, Baridua 9th Mile, Meghalaya

793101, India

Lat 26.102354°

Long 91.846575°

17/11/22 10:59 AM GMT +05:30



GPS Map Camera

**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**


**Lat 26.102363°**

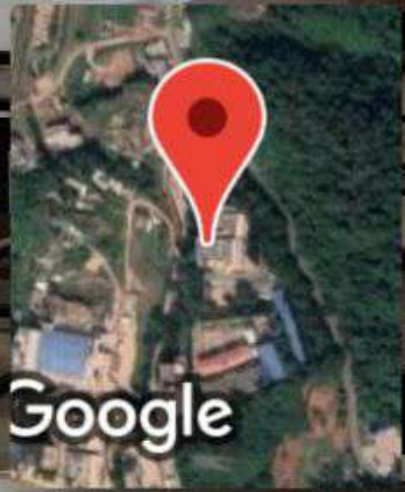
**Long 91.846674°**

**01/12/22 10:02 AM GMT +05:30**

Google



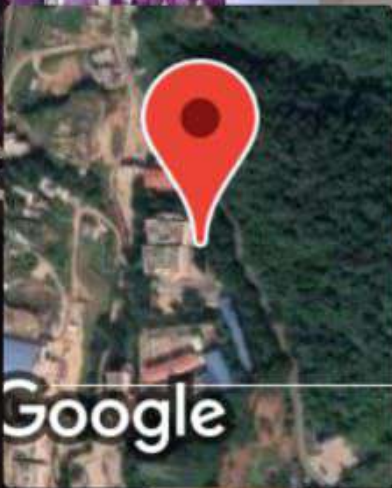
 GPS Map Camera



**Baridua 9th Mile, Meghalaya, India**  
**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**  
**Lat 26.102332°**  
**Long 91.846321°**  
**01/12/22 09:58 AM GMT +05:30**



GPS Map Camera



Google

Baridua 9th Mile, Meghalaya, India

4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India

Lat 26.102405°

Long 91.846776°

01/12/22 10:09 AM GMT +05:30



GPS Map Camera

**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

**Lat 26.102321°**

**Long 91.846416°**

**01/12/22 10:12 AM GMT +05:30**

**Google**



GPS Map Camera



Google

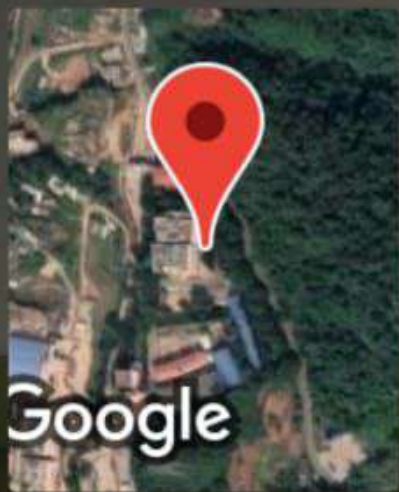
Baridua 9th Mile, Meghalaya, India

4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India

Lat 26.10231°

Long 91.846485°

01/12/22 10:10 AM GMT +05:30



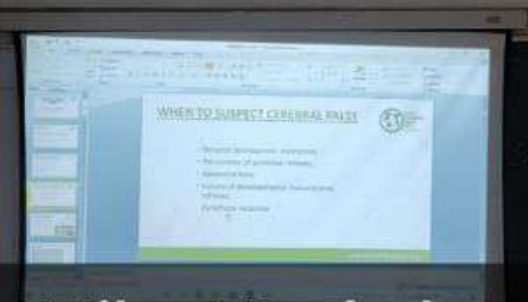
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**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

**Lat 26.10235°**

**Long 91.846744°**

**01/12/22 10:22 AM GMT +05:30**



**GPS Map Camera**



Baridua 9th Mile, Meghalaya, India  
4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India  
Lat 26.102373°  
Long 91.846631°  
01/12/22 10:24 AM GMT +05:30







GPS Map Camera

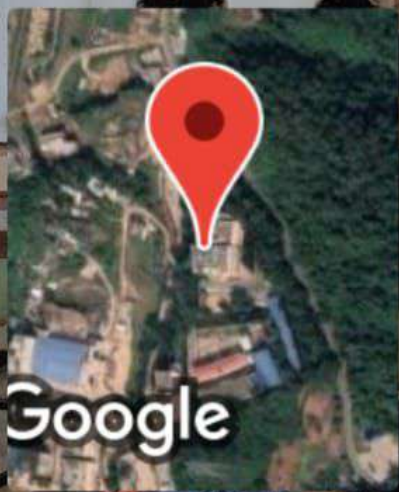
Baridua 9th Mile, Meghalaya, India

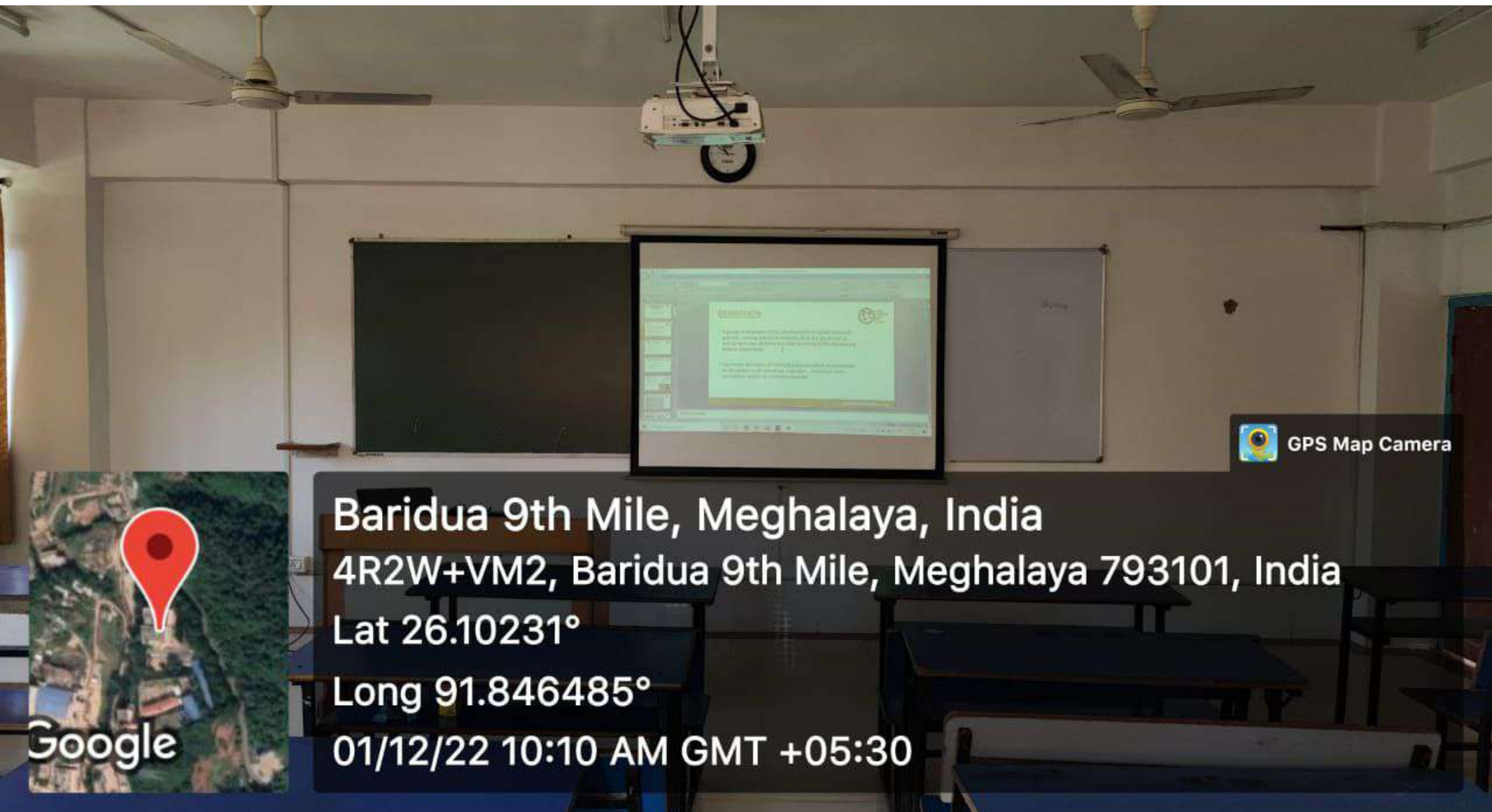
4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India

Lat 26.102361°

Long 91.84635°

01/12/22 10:47 AM GMT +05:30





 GPS Map Camera




**Baridua 9th Mile, Meghalaya, India**  
**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**  
**Lat 26.10231°**  
**Long 91.846485°**  
**01/12/22 10:10 AM GMT +05:30**



SOFTWARE ENGINEERING

Making practical applications of the knowledge gained through software engineering. The application of the principles of software development in the software engineering.

 GPS Map Camera



Lat 26.102255°  
Long 91.846675°  
01/12/22 10:31 AM GMT +05:30



GPS Map Camera

Lat 26.102255°

Long 91.846675°

01/12/22 10:33 AM GMT +05:30



Google



**INTRODUCTION**

From the atom to the quark:  
 the evolution of matter...  
 How small are the smallest constituents of matter?

• In 1897, the first subatomic particle, the electron, was discovered by J.J. Thomson.  
 • The discovery of protons by Ernest Rutherford in 1911 in his famous scattering experiment and later in 1932, the discovery of neutrons by James Chadwick, completed the established picture of atomic matter.  
 • In 1928, the high energy electron-proton scattering experiments at SLAC revealed the existence of hard scattering centers inside the protons, thus confirming, that it is not truly fundamental particles, but is composed of some substructure. Subsequently, additional small ( $\sim 10^{-16}$  m) particles which are called **quarks**.

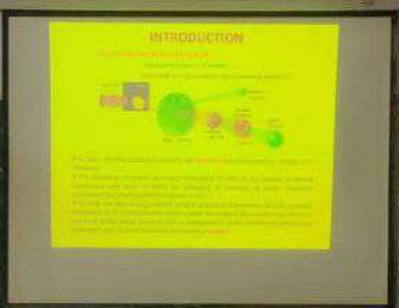


 GPS Map Camera




Google

Lat 26.102255°  
 Long 91.846675°  
 01/12/22 10:25 AM GMT +05:30



Handwritten text on a chalkboard, including the words 'Results' and 'under the ground'.

 GPS Map Camera

Lat 26.102255°

Long 91.846675°

01/12/22 10:18 AM GMT +05:30



Google



GPS Map Camera


Lat 26.102255°

Long 91.846675°

01/12/22 10:10 AM GMT +05:30

Google



 GPS Map Camera

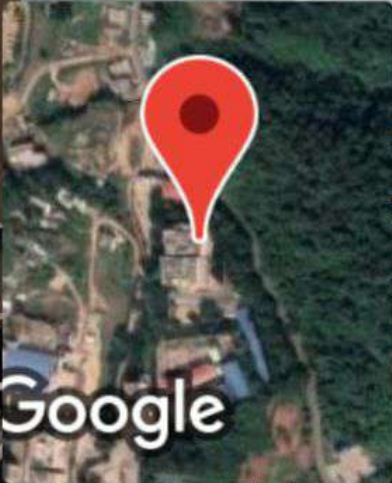
**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

**Lat 26.102524°**

**Long 91.84659°**

**03/12/22 01:59 PM GMT +05:30**



Google





GPS Map Camera

null

01/12/22 10:48 AM GMT +05:30



Google



 GPS Map Camera

Lat 26.102255°  
Long 91.846675°  
01/12/22 10:39 AM GMT +05:30



Google



GPS Map Camera

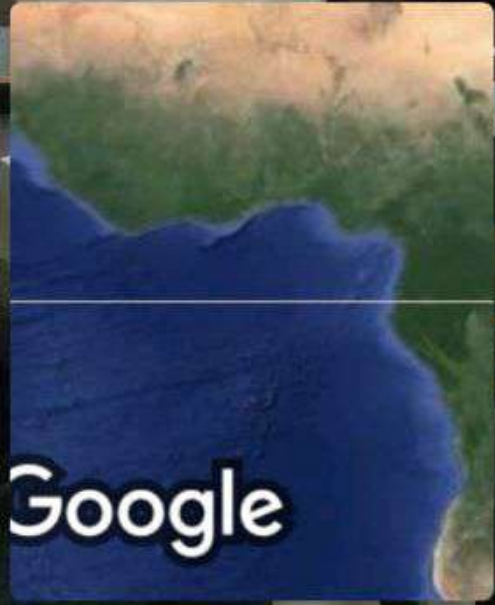


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GPS Map Camera



null

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GPS Map Camera

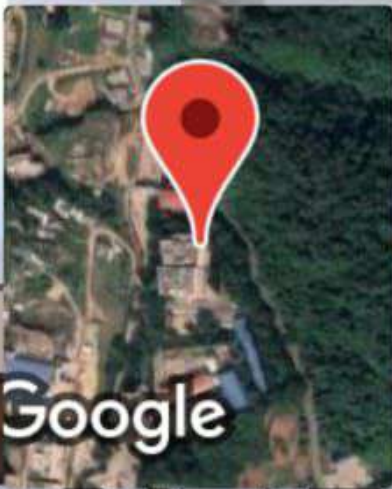


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01/12/22 10:44 AM GMT +05:30



GPS Map Camera



Google

**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

**Lat 26.102575°**

**Long 91.846628°**

**03/12/22 01:32 PM GMT +05:30**




$$\text{BaCO}_3 (s) + \text{TiO}_2 (s) \xrightarrow{1000^\circ\text{C}} \text{BaTiO}_3 (s) + \text{CO}_2 (g)$$

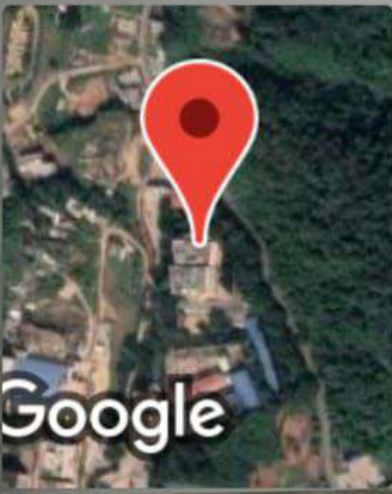
$$\frac{1}{2}\text{Y}_2\text{O}_3 (s) + 2\text{BaCO}_3 (s) + 3\text{CuO}(s) + 1\text{H}_2\text{O} \xrightarrow{930^\circ\text{C/air and } 450^\circ\text{C/O}_2} \text{YBa}_2\text{Cu}_3\text{O}_7 (s) + 2\text{CO}_2 (g)$$

>High temperatures are used in these syntheses to accelerate the slow diffusion of ions in solids and to overcome the high Coulombic attractions between the ions.

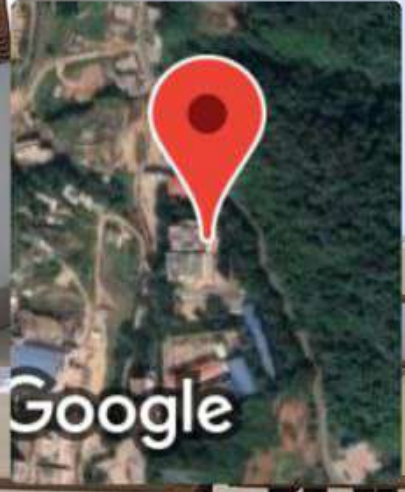
>The direct method is applicable to many other inorganic material types, such as the syntheses of complex chlorides and dense, anhydrous metal aluminosilicates.



 GPS Map Camera



**Baridua 9th Mile, Meghalaya, India**  
**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**  
**Lat 26.102576°**  
**Long 91.846515°**  
**01/12/22 11:02 AM GMT +05:30**



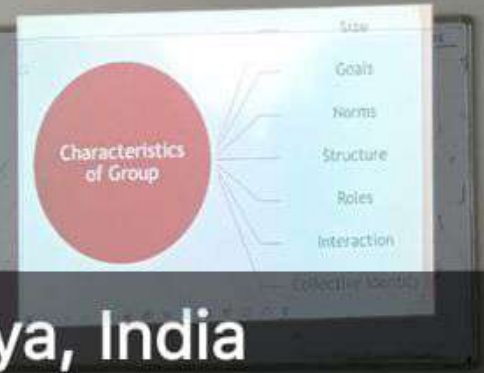
**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

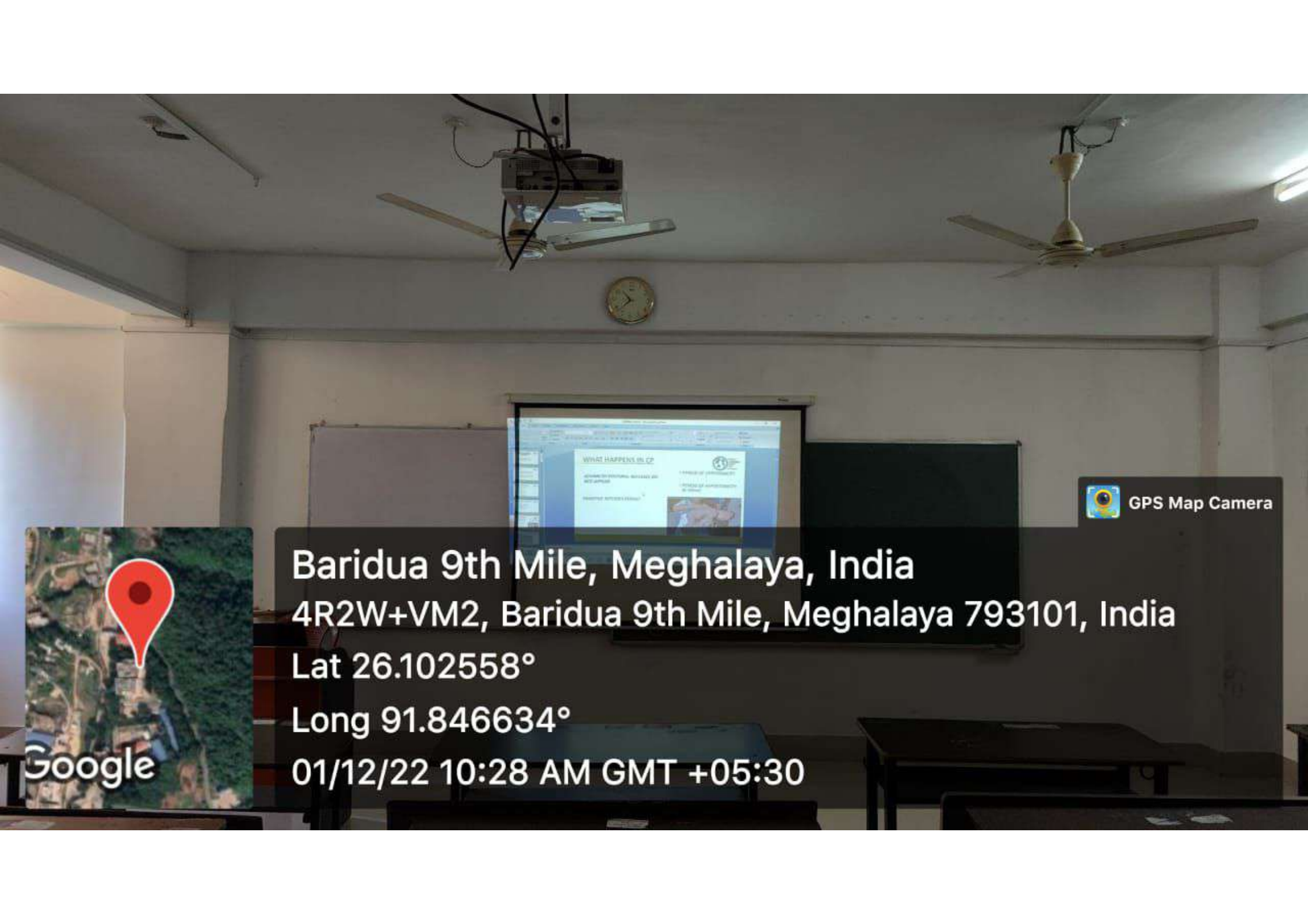
**Lat 26.102491°**

**Long 91.846624°**

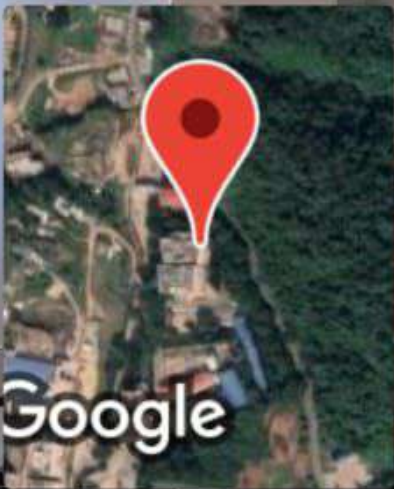
**01/12/22 10:30 AM GMT +05:30**







GPS Map Camera



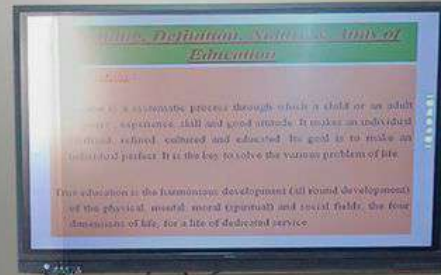
**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

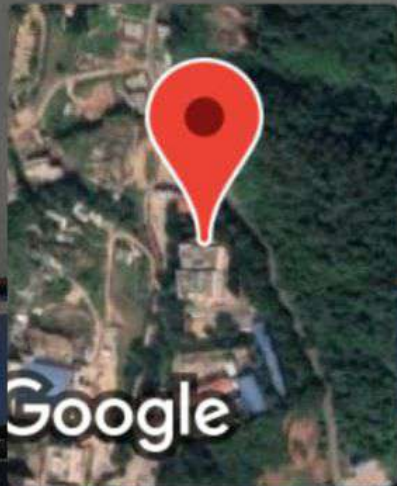
**Lat 26.102558°**

**Long 91.846634°**

**01/12/22 10:28 AM GMT +05:30**



GPS Map Camera



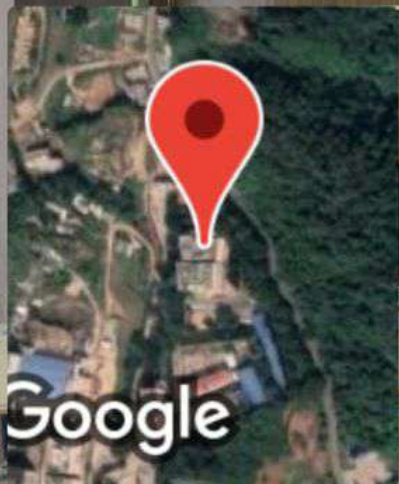
**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

**Lat 26.102617°**

**Long 91.846489°**

**01/12/22 10:35 AM GMT +05:30**



Baridua 9th Mile, Meghalaya, India  
4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India

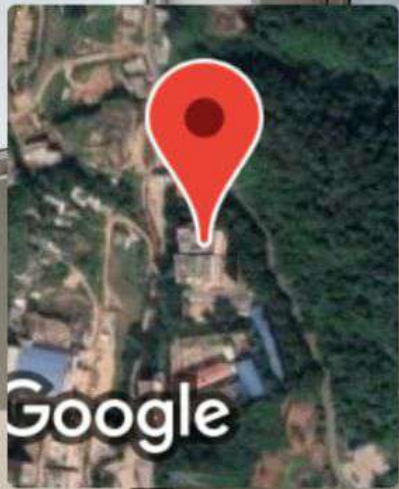
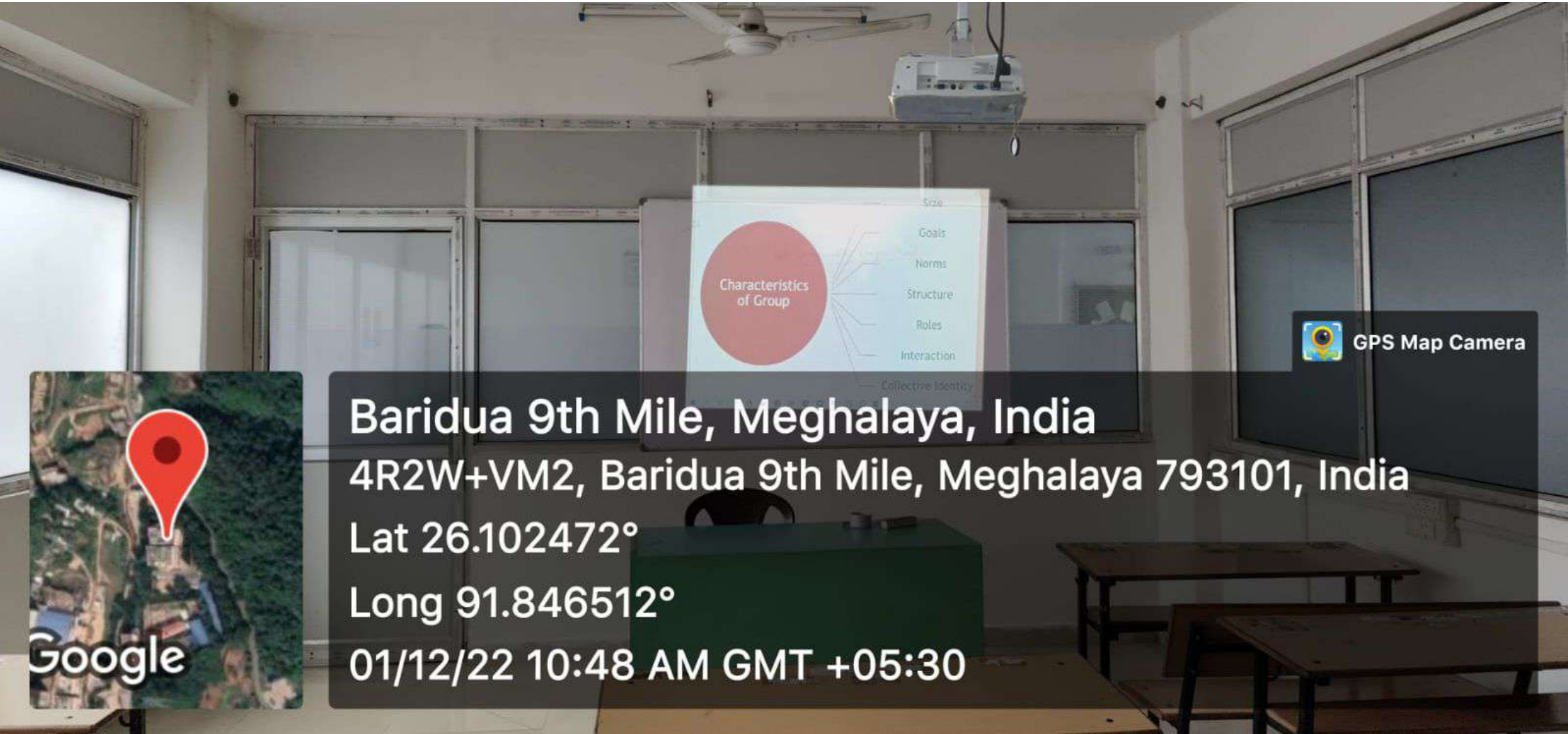
Lat 26.102531°

Long 91.846482°

01/12/22 10:37 AM GMT +05:30



GPS Map Camera



**Baridua 9th Mile, Meghalaya, India**

**4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India**

**Lat 26.102472°**

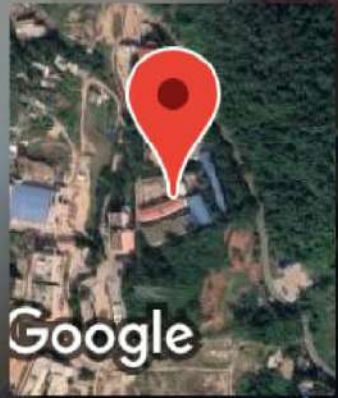
**Long 91.846512°**

**01/12/22 10:48 AM GMT +05:30**

 **GPS Map Camera**



GPS Map Camera



Baridua 9th Mile, Meghalaya, India  
4R2W+VM2, Baridua 9th Mile,  
Meghalaya 793101, India  
Lat 26.10143°  
Long 91.846642°  
07/12/22 10:02 AM GMT +05:30



 GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
4R2W+35G, Hostel Rd, Meghalaya  
781022, India  
Lat 26.099713°  
Long 91.845161°  
07/12/22 10:16 AM GMT +05:30



GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya  
Umling, Meghalaya 793101, India  
Lat 26.10049°  
Long 91.845168°  
06/12/22 10:48 AM



GPS Map Camera



## Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya

Umling, Meghalaya 793101, India

Lat 26.100304°

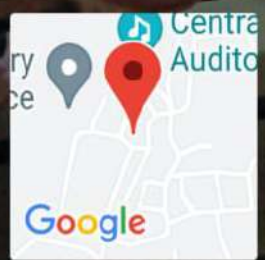
Long 91.845133°

06/12/22 10:51 AM





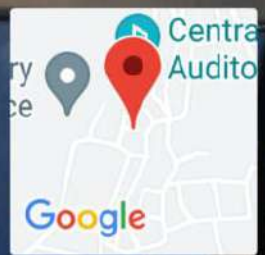
GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya  
Umling, Meghalaya 793101, India  
Lat 26.100273°  
Long 91.845157°  
06/12/22 10:59 AM



GPS Map Camera



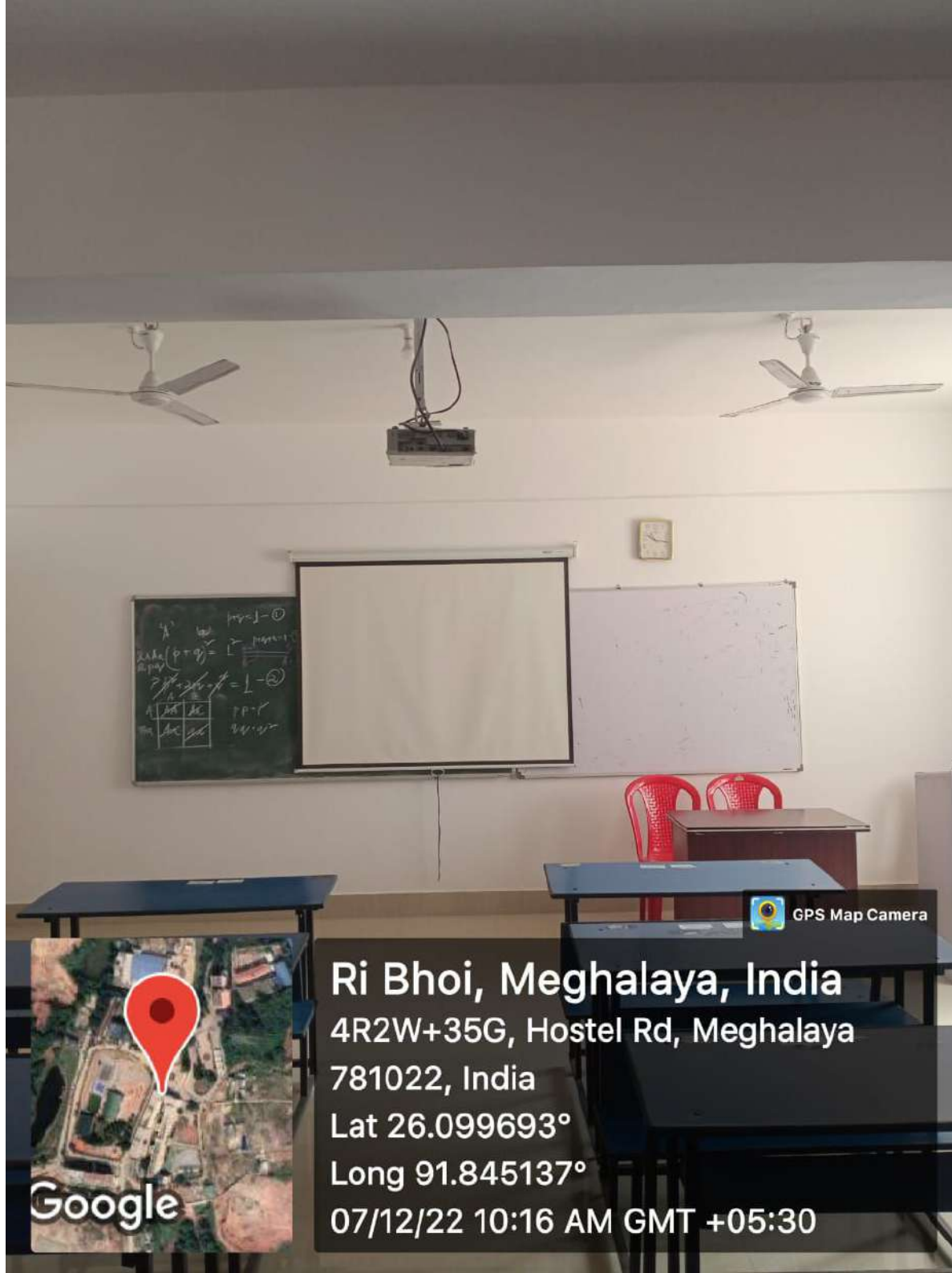
### Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya  
Umling, Meghalaya 793101, India


Lat 26.100497°

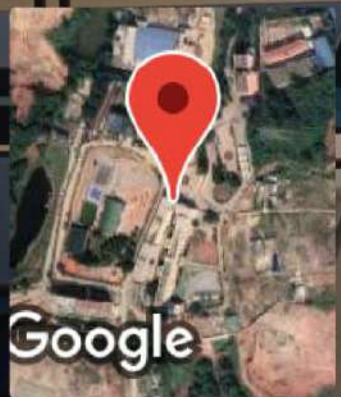
Long 91.845199°

06/12/22 11:01 AM



$$A^{-1} = \frac{1}{|A|} \begin{bmatrix} a_{22}a_{33} - a_{23}a_{32} & -(a_{12}a_{33} - a_{13}a_{32}) & (a_{11}a_{23} - a_{13}a_{21}) \\ -(a_{11}a_{33} - a_{13}a_{31}) & a_{11}a_{22} - a_{12}a_{21} & -(a_{11}a_{23} - a_{13}a_{21}) \\ a_{12}a_{31} - a_{13}a_{31} & -(a_{11}a_{31} - a_{13}a_{31}) & a_{11}a_{21} - a_{12}a_{21} \end{bmatrix}$$

 GPS Map Camera



**Ri Bhoi, Meghalaya, India**

4R2W+35G, Hostel Rd, Meghalaya

781022, India

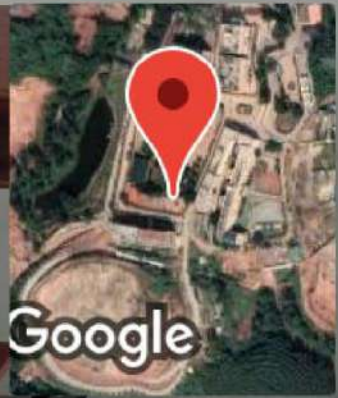
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Long 91.845137°

07/12/22 10:16 AM GMT +05:30



GPS Map Camera

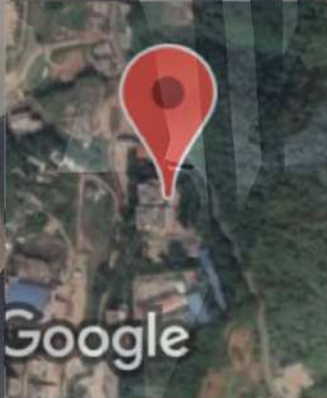


**Ri Bhoi, Meghalaya, India**  
3RXV+FP3, Hostel Rd, Meghalaya  
781022, India  
Lat 26.09898°  
Long 91.844385°  
07/12/22 10:24 AM GMT +05:30



Concept of Dignity

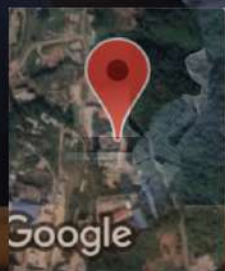
Basic Dignity	Reserve Dignity
1. Moral Status	2. Autonomy
3. Reason	4. Self-determination
5. Freedom of Choice	6. Freedom of Movement
7. Privacy	8. Security
9. Health	10. Education
11. Employment	12. Social Security
13. Housing	14. Food
15. Clothing	16. Shelter
17. Recreation	18. Culture
19. Religion	20. Family



Baridua 9th Mile, Meghalaya, India  
4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India  
Lat 26.102472°  
Long 91.8466°  
03/12/22 01:31 PM GMT +05:30



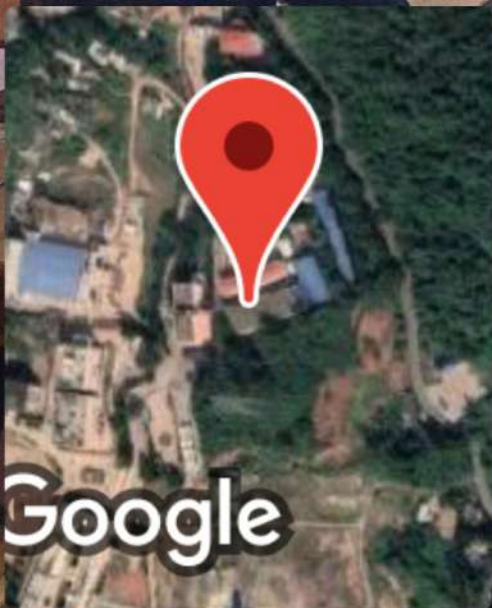
Baridua 9th Mile, Meghalaya, India  
4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India  
Lat 26.102536°  
Long 91.846599°  
01/12/22 10:29 AM GMT +05:30



Baridua 9th Mile, Meghalaya, India  
4R2W+VM2, Baridua 9th Mile, Meghalaya 793101, India  
Lat 26.102546°  
Long 91.846559°  
01/12/22 10:31 AM GMT +05:30



GPS Map Camera



# Baridua, Meghalaya, India

Hostel Road, Techno City, 4R2W+GH9, Baridua,  
Meghalaya 781022, India

Lat 26.101127°

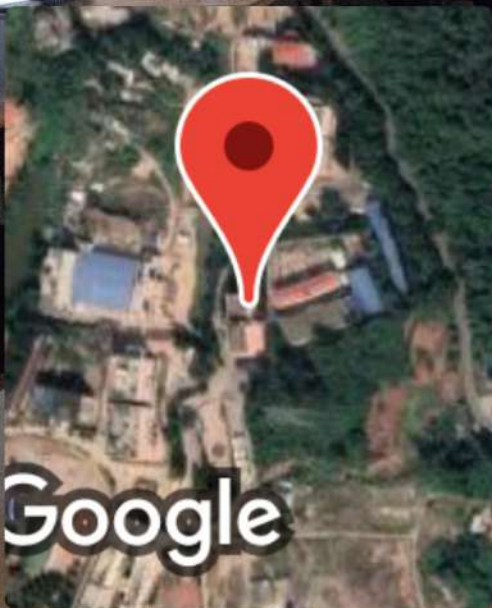
Long 91.84647°

30/11/22 09:38 AM GMT +05:30





GPS Map Camera



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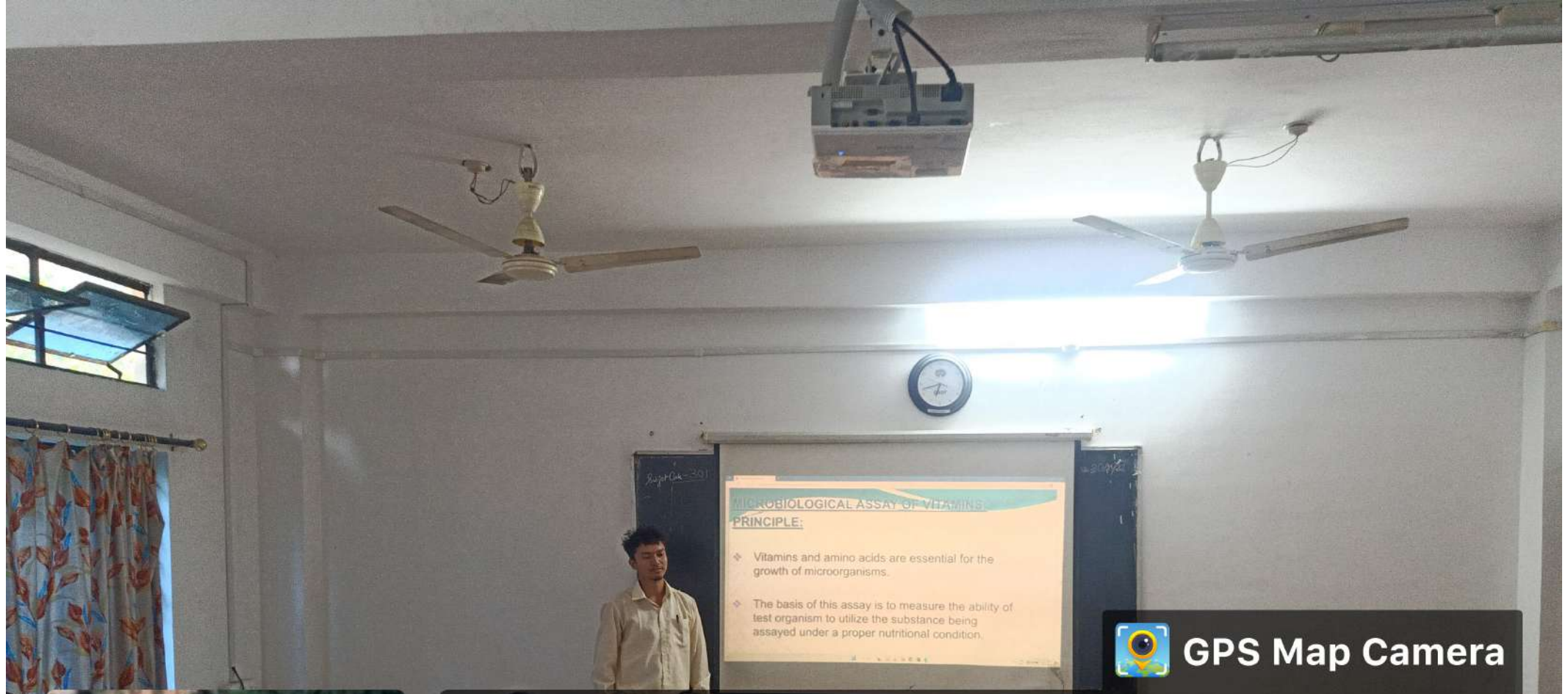
# Baridua, Meghalaya, India

TechnoCity, USTM, 9th Mile, Killing Road, Baridua,  
Meghalaya 781022, India

Lat 26.101203°

Long 91.846064°

30/11/22 09:41 AM GMT +05:30

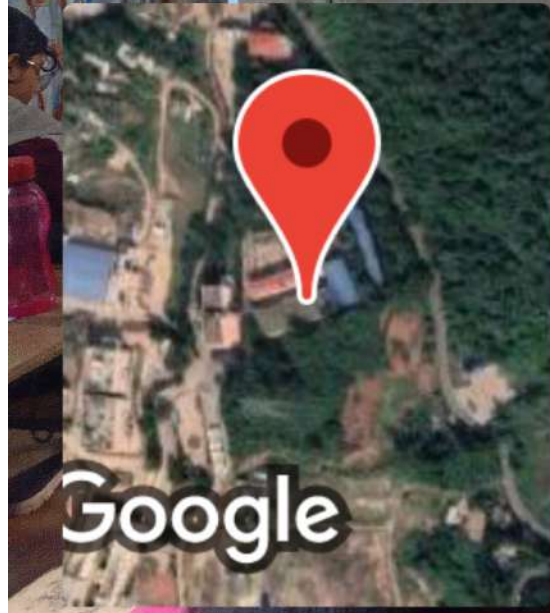


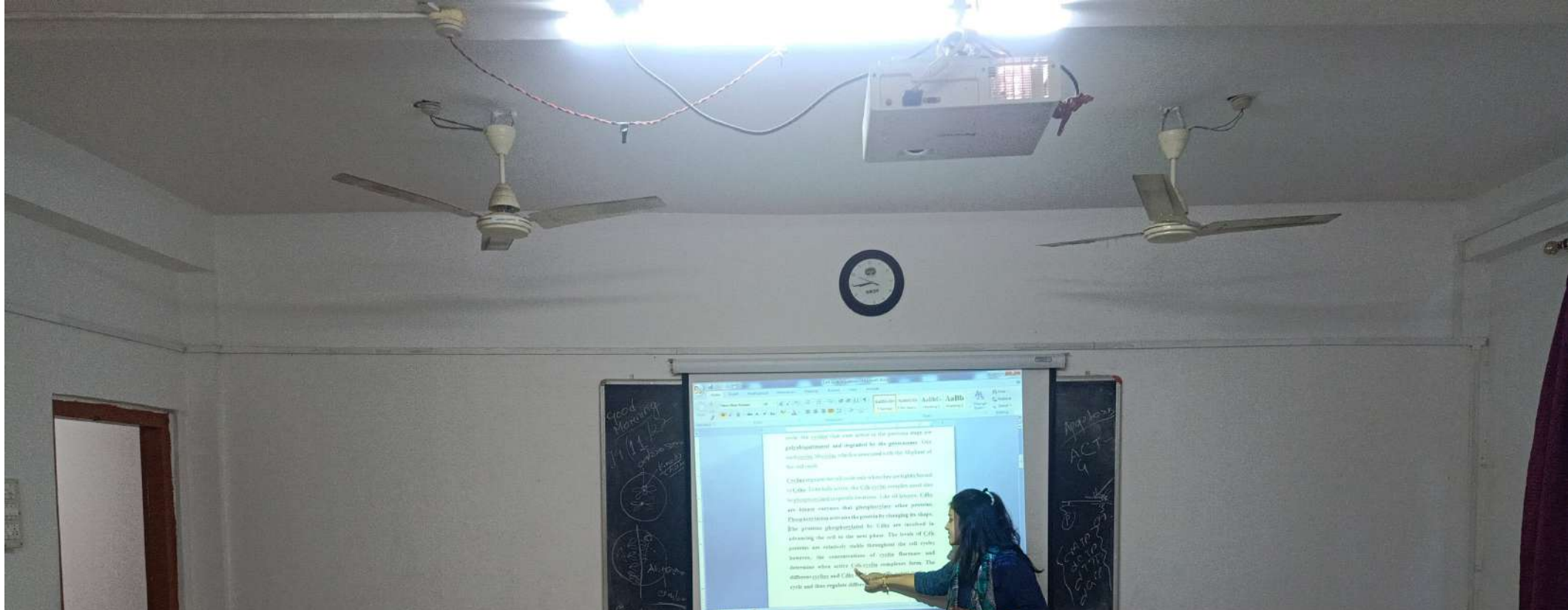
**MICROBIOLOGICAL ASSAY OF VITAMINS**  
**PRINCIPLE:**

- ◆ Vitamins and amino acids are essential for the growth of microorganisms.
- ◆ The basis of this assay is to measure the ability of test organism to utilize the substance being assayed under a proper nutritional condition.

 **GPS Map Camera**

**Baridua, Meghalaya, India**  
 Hostel Road, Techno City, 4R2W+GH9, Baridua,  
 Meghalaya 781022, India  
 Lat 26.101164°  
 Long 91.846702°  
 30/11/22 09:51 AM GMT +05:30





GPS Map Camera



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Baridua 9th Mile, Meghalaya, India

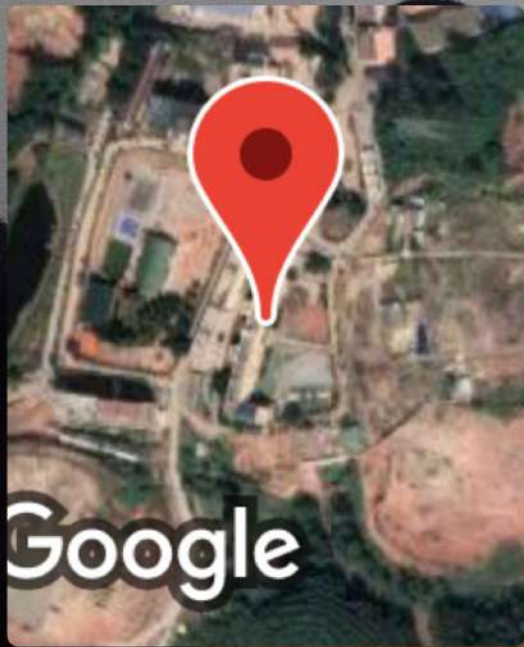
4R2W+VM2, Baridua 9th Mile, Meghalaya 793101,

India

Lat 26.101233°

Long 91.846783°

30/11/22 09:48 AM GMT +05:30



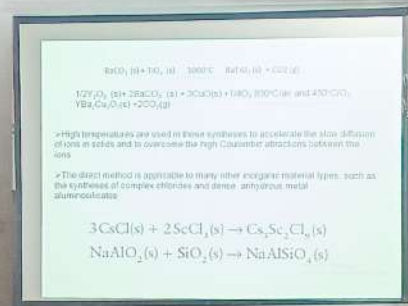
# Baridua, Meghalaya, India

Techno-City, 9thMile, Baridua, Baridua, Meghalaya  
793101, India

Lat 26.099138°

Long 91.84523°

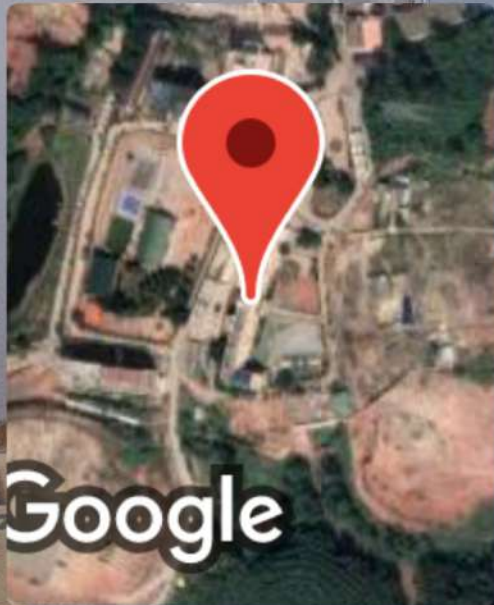
30/11/22 11:03 AM GMT +05:30



GPS Map Camera



**GPS Map Camera**

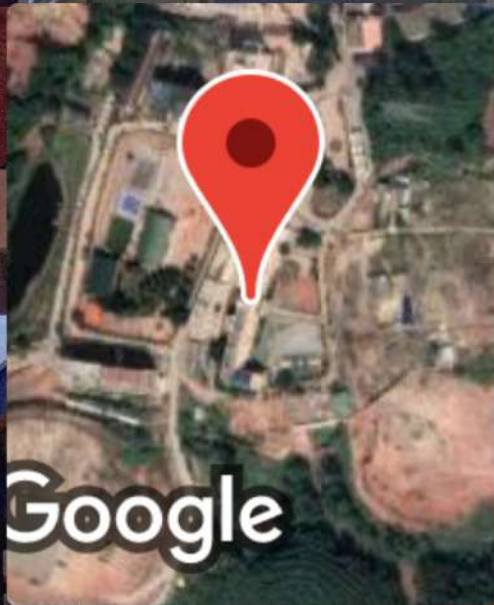


**Google**

**Baridua, Meghalaya, India**  
 Techno-City, 9thMile, Baridua, Baridua, Meghalaya  
 793101, India  
 Lat 26.099083°  
 Long 91.845156°  
 30/11/22 11:23 AM GMT +05:30



 **GPS Map Camera**



**Baridua, Meghalaya, India**  
Techno-City, 9thMile, Baridua, Baridua, Meghalaya  
793101, India  
Lat 26.099086°  
Long 91.845158°  
30/11/22 09:55 AM GMT +05:30



 **GPS Map Camera**

# Baridua, Meghalaya, India

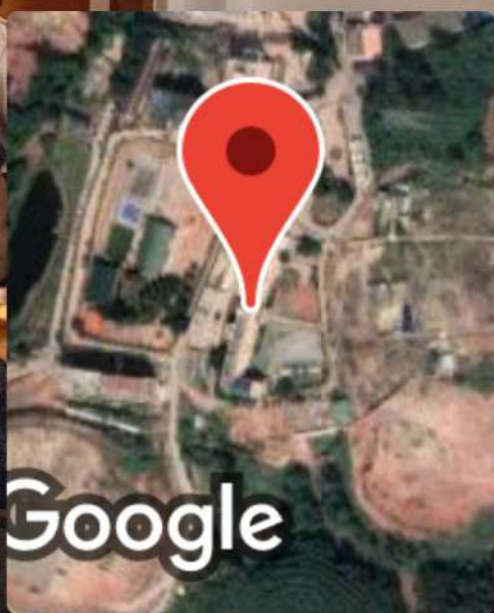
Techno-City, 9thMile, Baridua, Baridua, Meghalaya

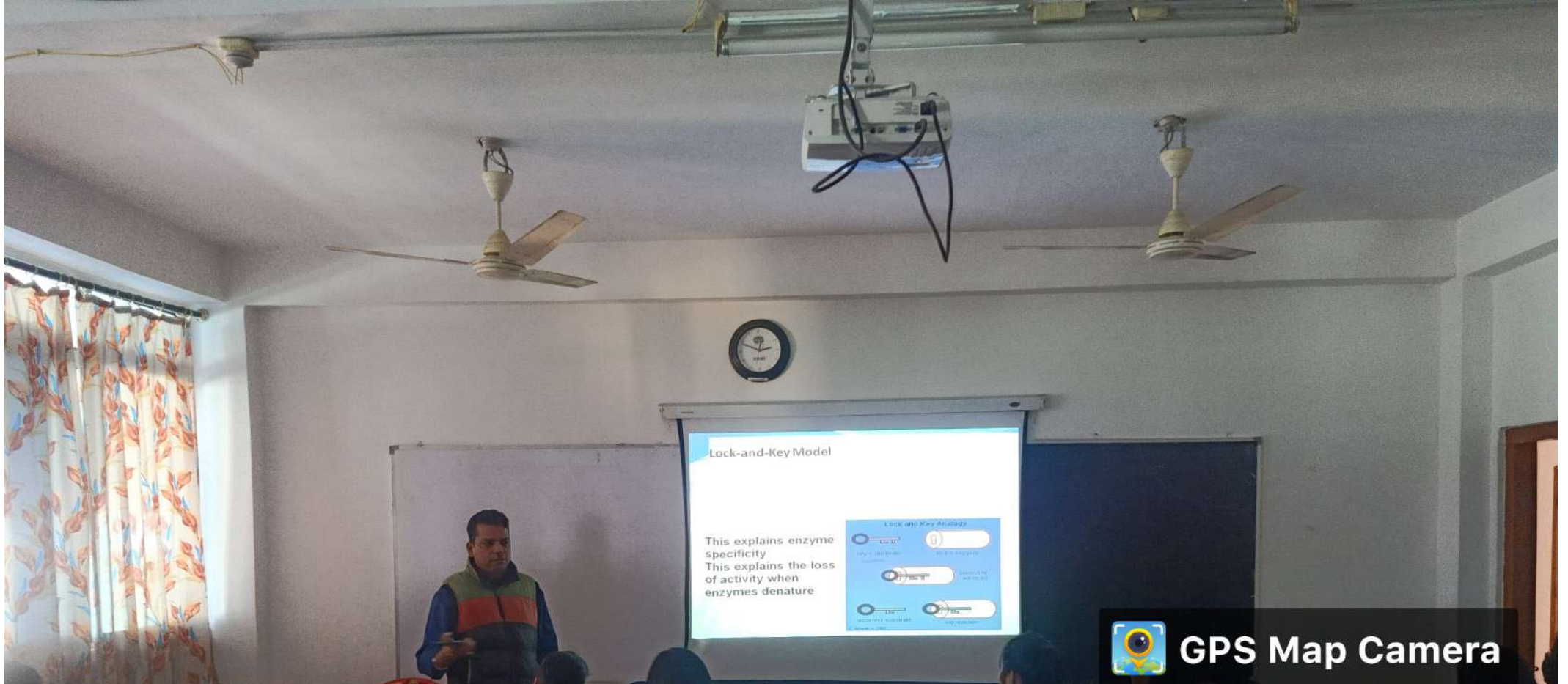
793101, India

Lat 26.099084°

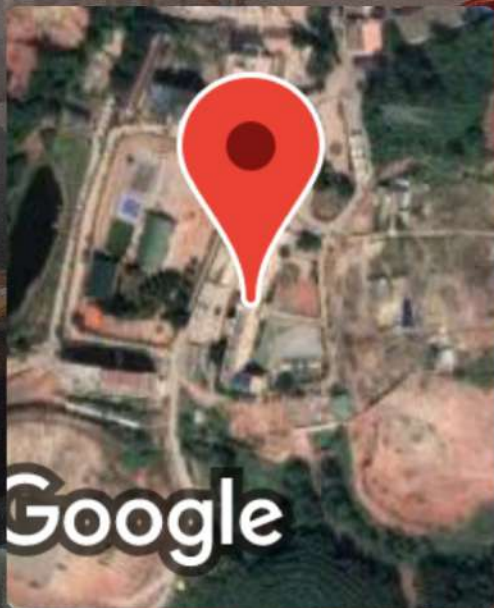
Long 91.845156°

30/11/22 10:54 AM GMT +05:30





 **GPS Map Camera**



**Baridua, Meghalaya, India**

**Techno-City, 9thMile, Baridua, Baridua, Meghalaya**

**793101, India**

**Lat 26.09908°**

**Long 91.845155°**

**30/11/22 09:52 AM GMT +05:30**





GPS Map Camera

**Baridua, Meghalaya, India**

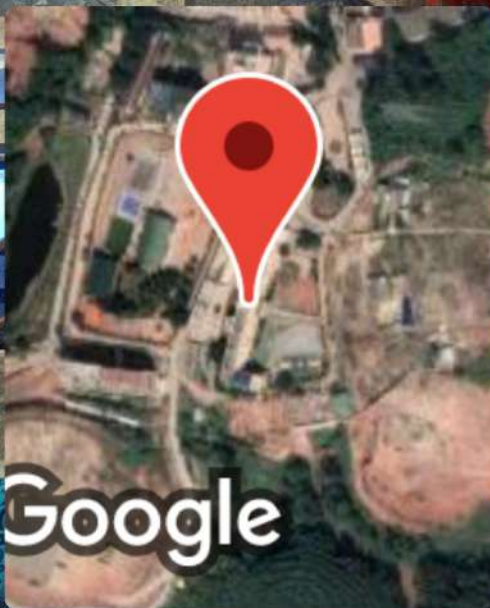
Techno-City, 9th Mile, Baridua, Baridua, Meghalaya

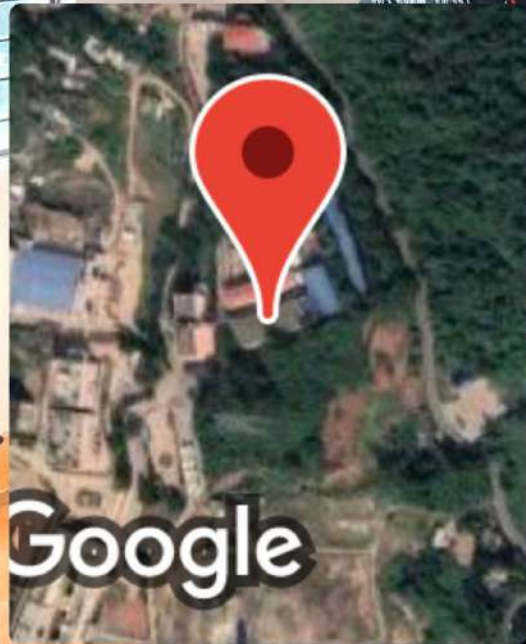
793101, India

Lat 26.099069°

Long 91.845145°

30/11/22 11:28 AM GMT +05:30





## Baridua, Meghalaya, India

Hostel Road, Techno City, 4R2W+GH9, Baridua,  
Meghalaya 781022, India

Lat 26.101102°

Long 91.846572°

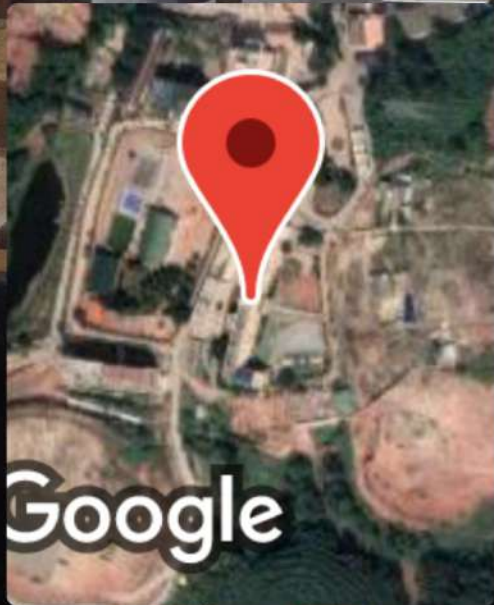
30/11/22 10:02 AM GMT +05:30



GPS Map Camera



 **GPS Map Camera**



# Baridua, Meghalaya, India

Techno-City, 9th Mile, Baridua, Baridua, Meghalaya

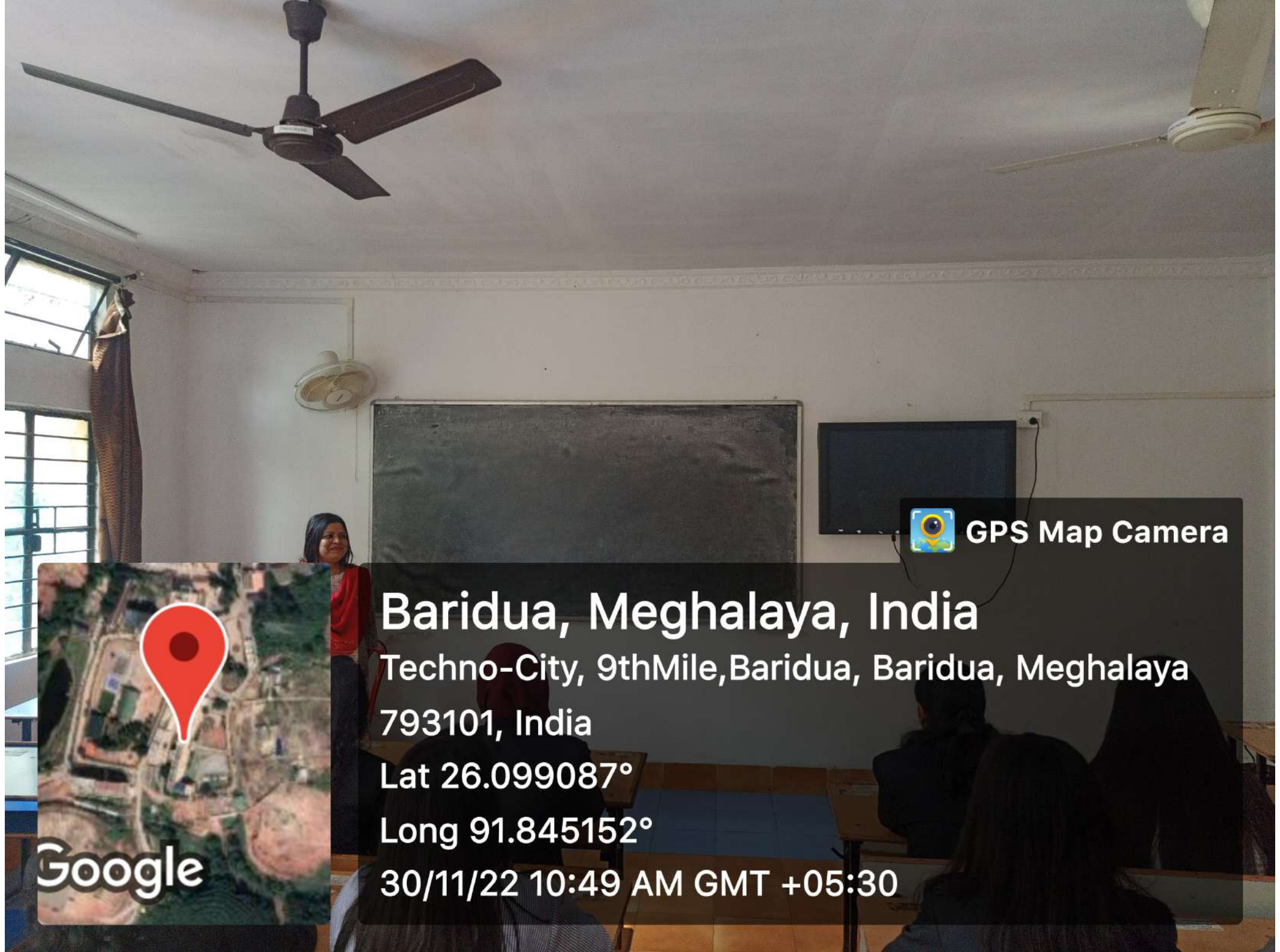
793101, India

Lat 26.099068°

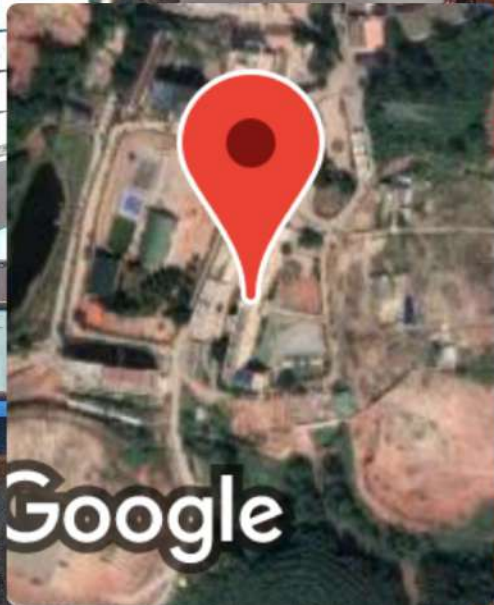
Long 91.84515°

30/11/22 10:21 AM GMT +05:30

Google



**GPS Map Camera**



# Baridua, Meghalaya, India

Techno-City, 9thMile, Baridua, Baridua, Meghalaya  
793101, India

Lat 26.099087°

Long 91.845152°

30/11/22 10:49 AM GMT +05:30



GPS Map Camera

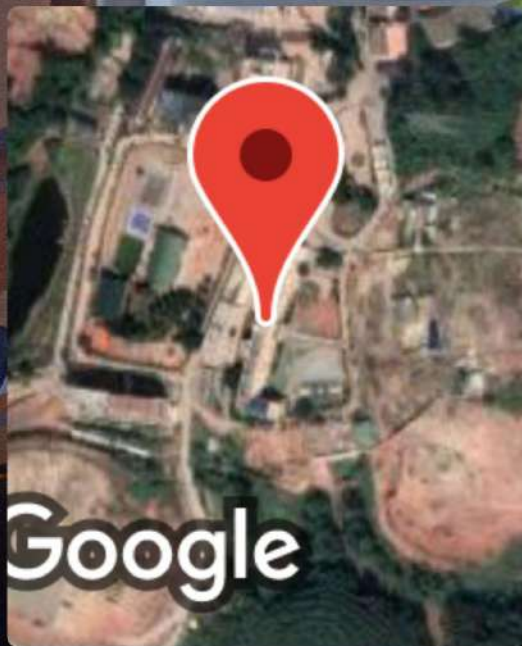
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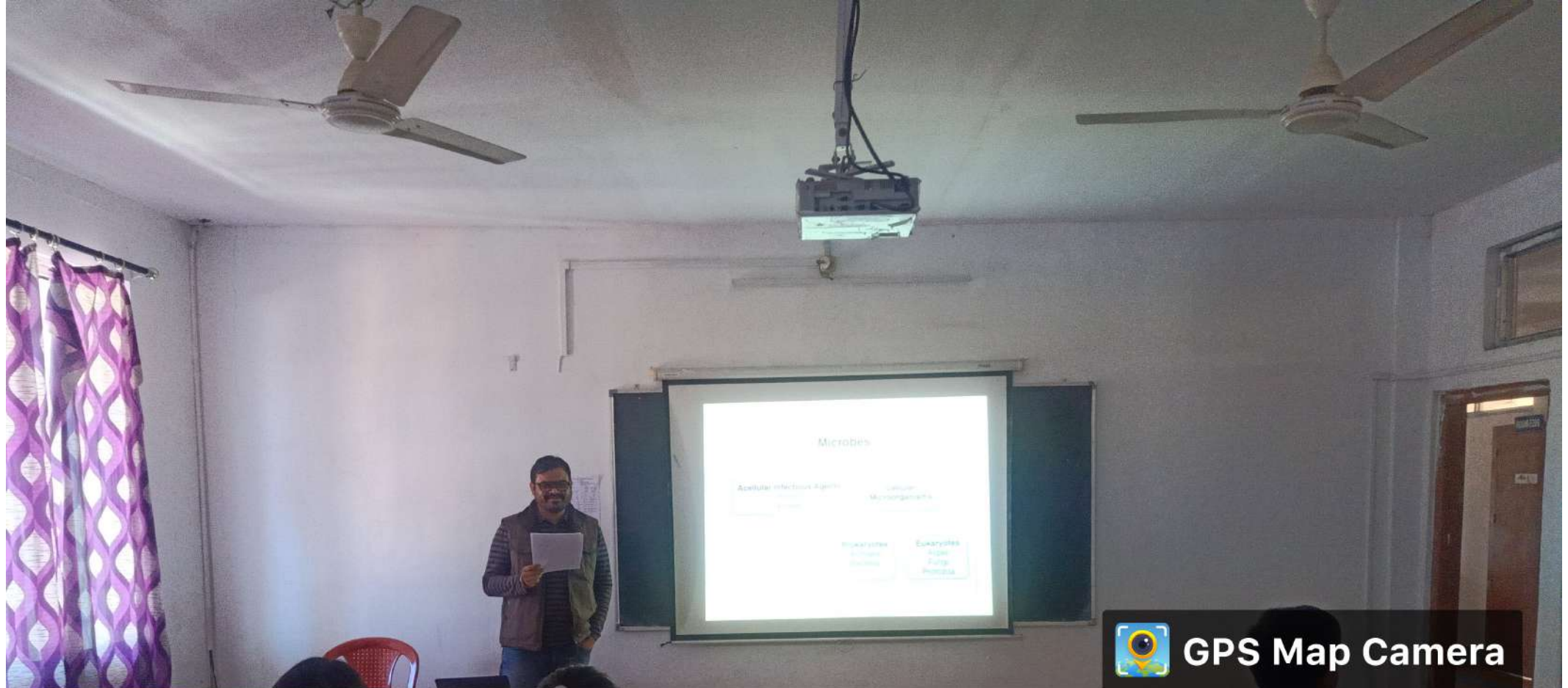
Techno-City, 9thMile, Baridua, Baridua, Meghalaya  
793101, India

Lat 26.099095°

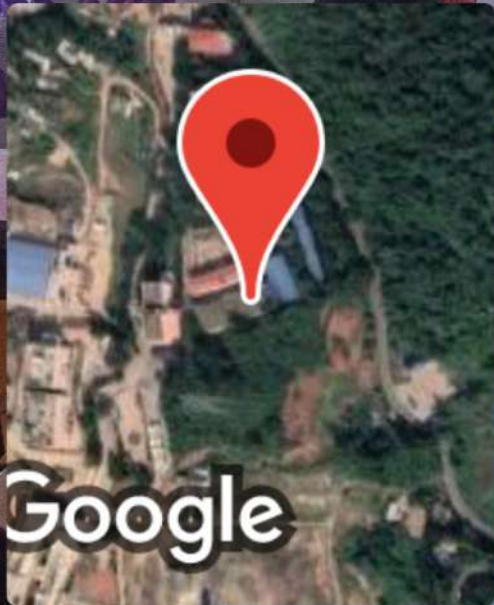
Long 91.84515°

30/11/22 10:43 AM GMT +05:30

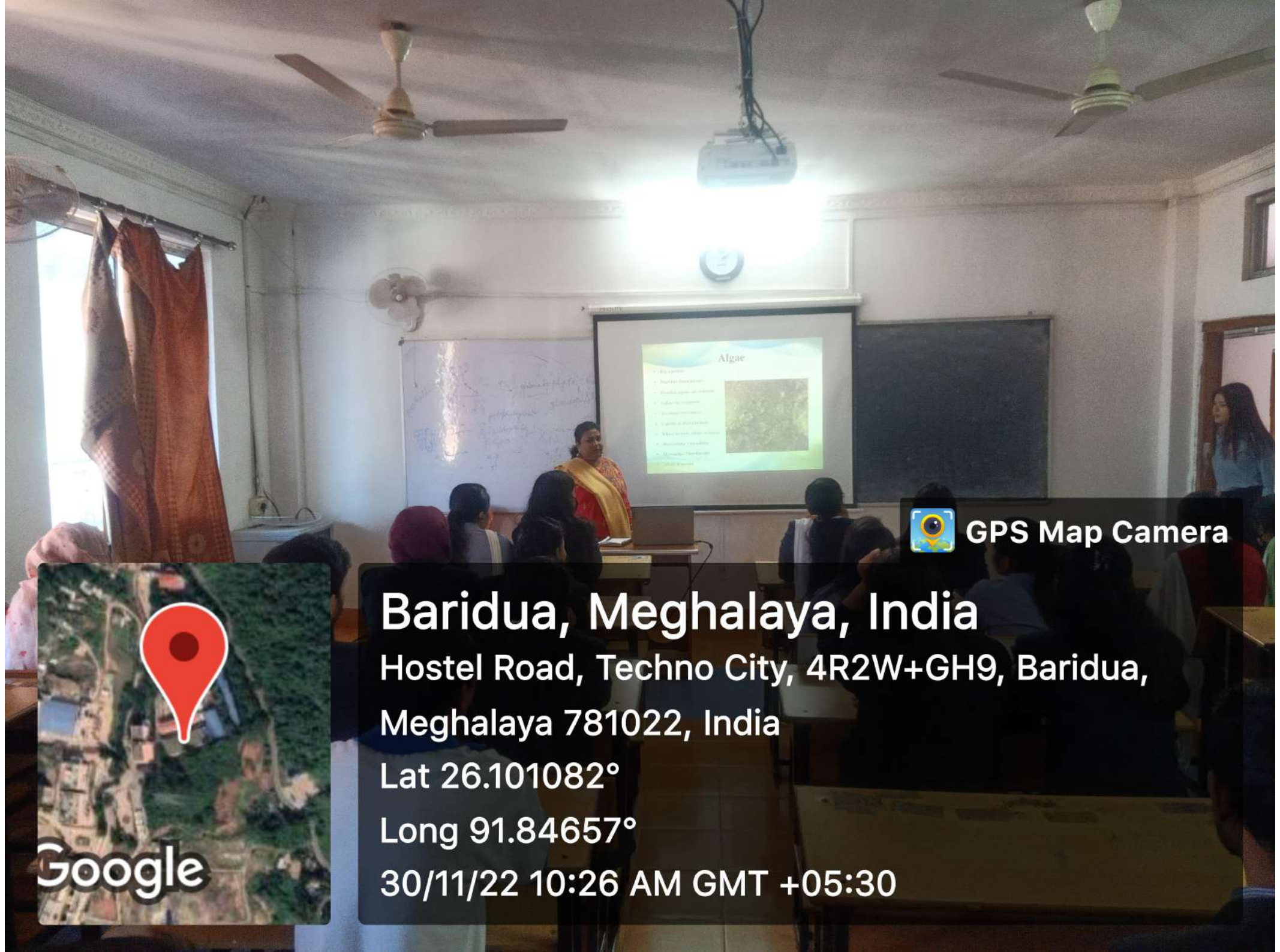




 **GPS Map Camera**



**Baridua, Meghalaya, India**  
**Hostel Road, Techno City, 4R2W+GH9, Baridua,**  
**Meghalaya 781022, India**  
**Lat 26.101137°**  
**Long 91.84673°**  
**30/11/22 10:34 AM GMT +05:30**

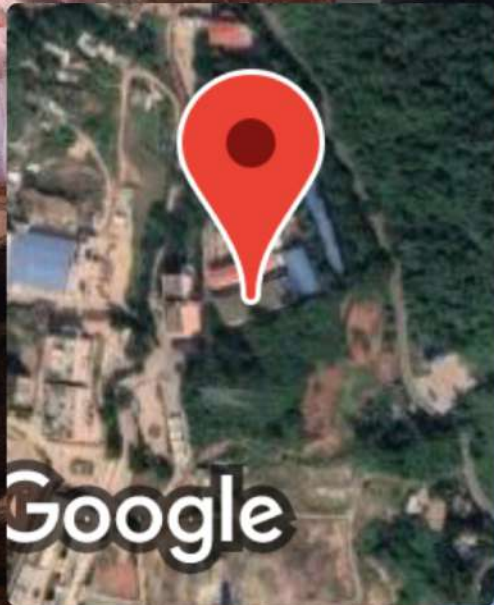


**Algae**

- Photosynthesis
- Prokaryotic or eukaryotic
- Aquatic or terrestrial
- Unicellular or multicellular
- Microscopic or macroscopic
- Autotrophic or heterotrophic
- Motile or non-motile



**GPS Map Camera**



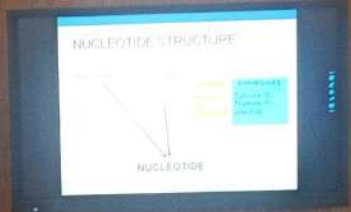
**Baridua, Meghalaya, India**

**Hostel Road, Techno City, 4R2W+GH9, Baridua,  
Meghalaya 781022, India**

**Lat 26.101082°**

**Long 91.84657°**

**30/11/22 10:26 AM GMT +05:30**



GPS Map Camera



**Baridua, Meghalaya, India**

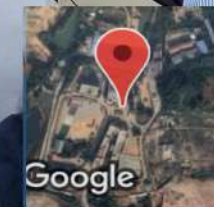
Hostel Road, Techno City, 4R2W+GH9, Baridua,  
Meghalaya 781022, India

Lat 26.101128°

Long 91.84655°

30/11/22 10:10 AM GMT +05:30



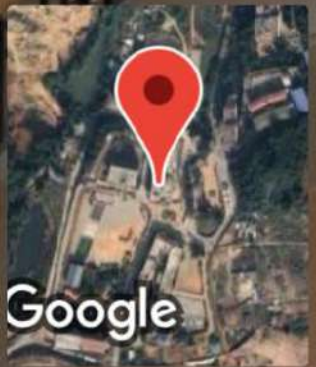


Ri Bhoi, Meghalaya, India  
4R2W+35G, Hostel Rd, Meghalaya 781022,  
India  
Lat 26.10009°  
Long 91.845315°  
30/11/22 09:26 AM GMT +05:30



• India has rich heritage of knowledge and thought  
• The power of knowledge of art, science, literature and social sciences was always considered in Indian thought and philosophy in the Indian human past.  
• World class institutions of ancient India  
→ Gurukulis, Nisanda, Vidyapeetha, Valmiki  
The Indian education system produced great scholars  
Charaka, Jyotish, Bhargava, Chanakya, Chaitanya, Baba, Rishi, Patanjali, Nagarjuna, Kaushika, Lakshminaras.

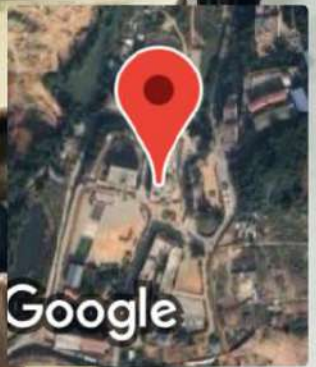
GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India  
Lat 26.10032°  
Long 91.84511°  
30/11/22 09:38 AM GMT +05:30



GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India  
Lat 26.100326°  
Long 91.845105°  
30/11/22 09:48 AM GMT +05:30



GPS Map Camera



# Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022,  
India

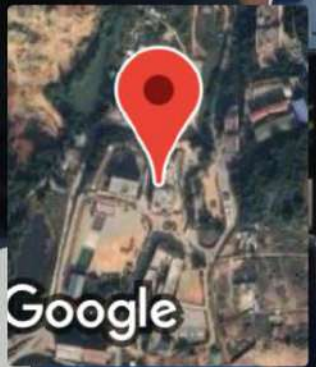
Lat 26.100461°

Long 91.84496°

30/11/22 10:08 AM GMT +05:30



GPS Map Camera



Google

### Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022,  
India

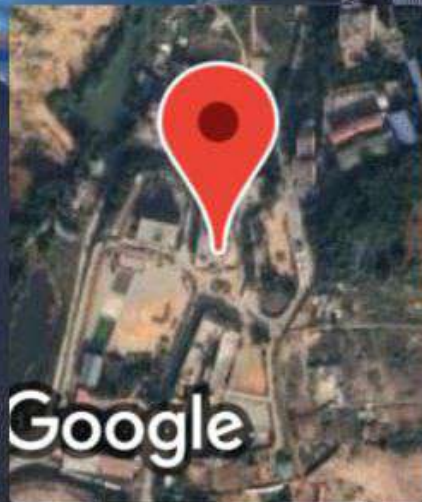
Lat 26.100455°

Long 91.845082°

30/11/22 09:51 AM GMT +05:30



GPS Map Camera



# Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India

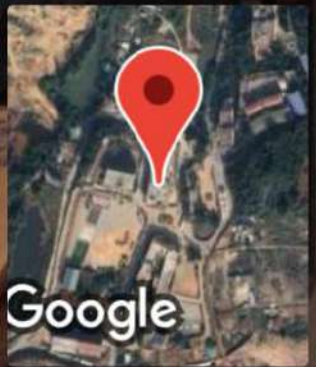
Lat 26.100255°

Long 91.84521°

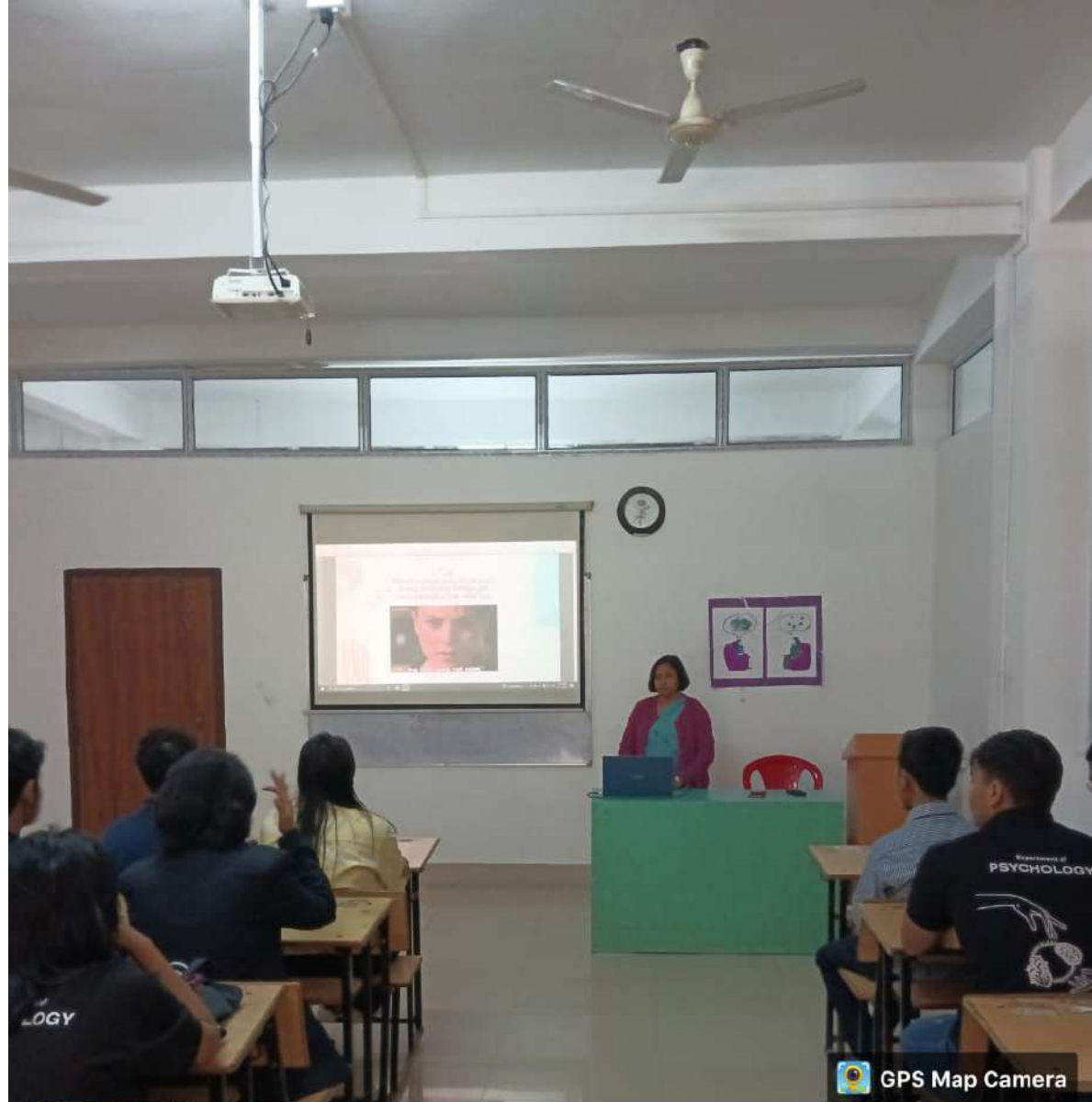
30/11/22 01:34 PM GMT +05:30



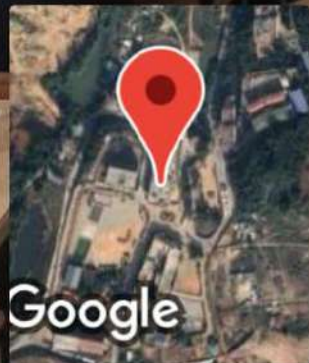
GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India  
Lat 26.100368°  
Long 91.845156°  
30/11/22 10:29 AM GMT +05:30



GPS Map Camera



## Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India

Lat 26.100342°

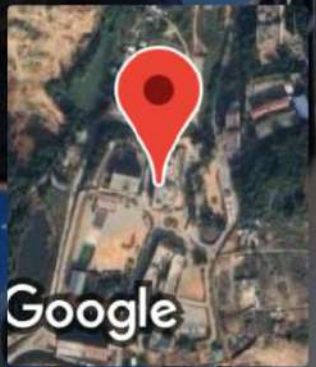
Long 91.845142°

30/11/22 01:29 PM GMT +05:30





GPS Map Camera



### Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022,  
India

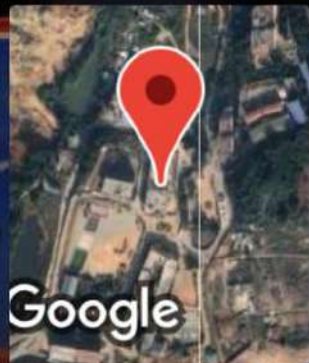
Lat 26.100408°

Long 91.845071°

30/11/22 10:18 AM GMT +05:30



GPS Map Camera



**Ri Bhoi, Meghalaya, India**

Killing Road 9th mile, Baridua, Ri Bhoi,

Meghalaya Umling, Meghalaya 793101, India

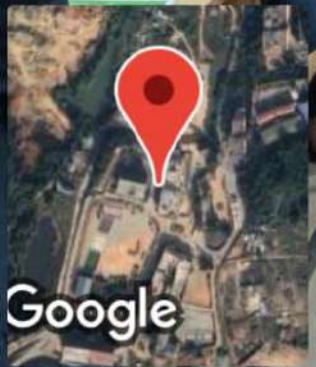
Lat 26.100471°

Long 91.845188°

30/11/22 10:38 AM GMT +05:30



GPS Map Camera



### Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022,  
India

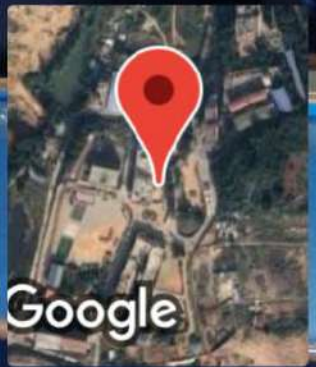
Lat 26.100486°

Long 91.844988°

30/11/22 10:21 AM GMT +05:30



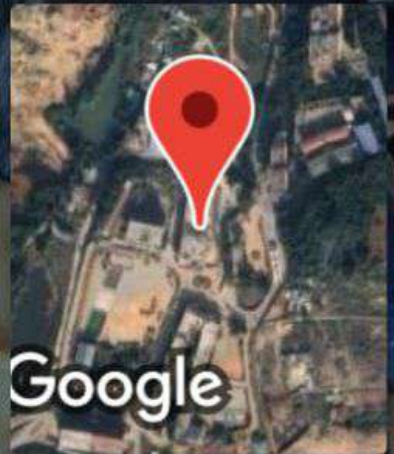
GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India  
Lat 26.100327°  
Long 91.845352°  
30/11/22 11:18 AM GMT +05:30



GPS Map Camera



## Ri Bhoi, Meghalaya, India


Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India

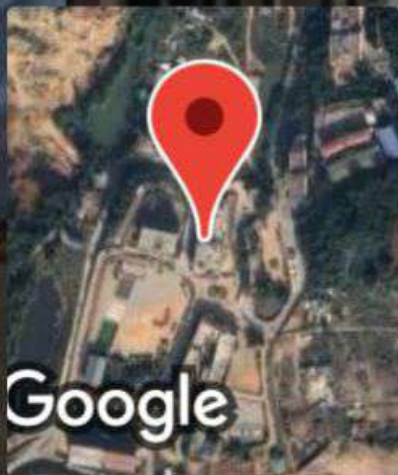
Lat 26.100475°

Long 91.845212°

30/11/22 10:59 AM GMT +05:30



 GPS Map Camera



## Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India

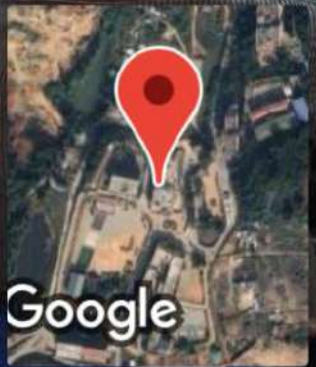
Lat 26.10044°

Long 91.845105°

30/11/22 11:07 AM GMT +05:30



GPS Map Camera



# Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022, India

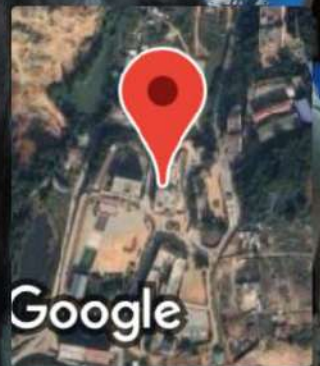
Lat 26.100433°

Long 91.845091°

30/11/22 10:51 AM GMT +05:30



GPS Map Camera



## Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi,

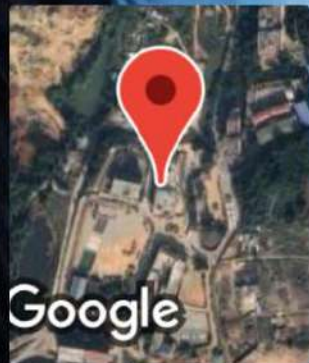
Meghalaya Umling, Meghalaya 793101, India

Lat 26.100433°

Long 91.845104°

30/11/22 11:37 AM GMT +05:30





## Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022,  
India

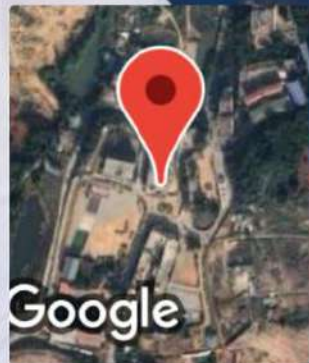
Lat 26.100483°

Long 91.845085°

30/11/22 11:24 AM GMT +05:30



GPS Map Camera



**Ri Bhoi, Meghalaya, India**

4R2W+35G, Hostel Rd, Meghalaya 781022,  
India

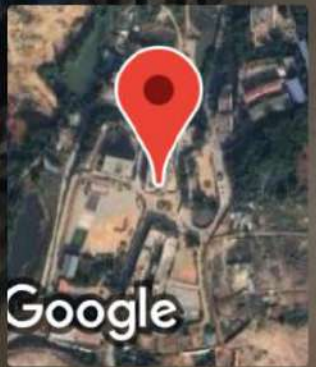
Lat 26.100242°

Long 91.845178°

30/11/22 12:07 PM GMT +05:30



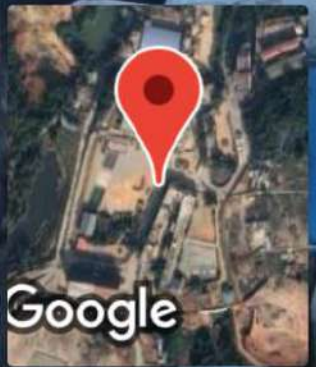
GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India  
Lat 26.100221°  
Long 91.845169°  
30/11/22 11:45 AM GMT +05:30



GPS Map Camera



Google

# Ri Bhoi, Meghalaya, India

3RXV+VQ5, Hostel Rd, Meghalaya 781022,  
India

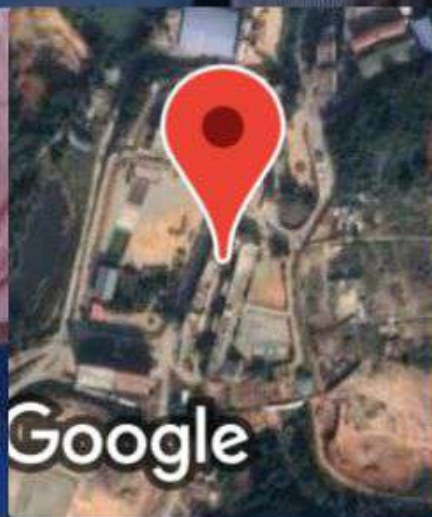
Lat 26.09972°

Long 91.844923°

30/11/22 11:59 AM GMT +05:30



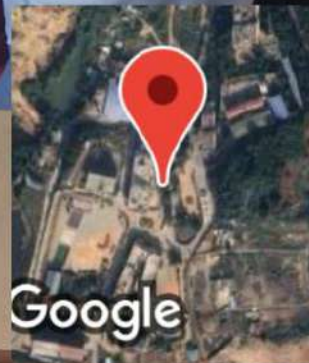
 GPS Map Camera



**Ri Bhoi, Meghalaya, India**  
**3RXW+F2F, Meghalaya 781022, India**  
**Lat 26.09897°**  
**Long 91.845059°**  
**30/11/22 12:14 PM GMT +05:30**



GPS Map Camera



**Ri Bhoi, Meghalaya, India**

Killing Road 9th mile, Baridua, Ri Bhoi,

Meghalaya Umling, Meghalaya 793101, India

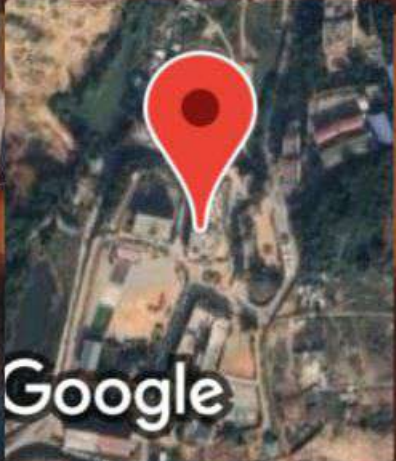
Lat 26.100404°

Long 91.845449°

30/11/22 11:53 AM GMT +05:30



 GPS Map Camera



# Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India

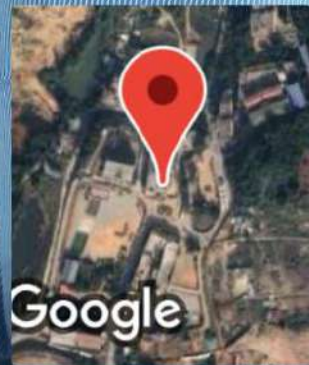
Lat 26.100398°

Long 91.845124°

30/11/22 12:18 PM GMT +05:30



GPS Map Camera



**Ri Bhoi, Meghalaya, India**

Killing Road 9th mile, Baridua, Ri Bhoi,

Meghalaya Umling, Meghalaya 793101, India

Lat 26.100268°

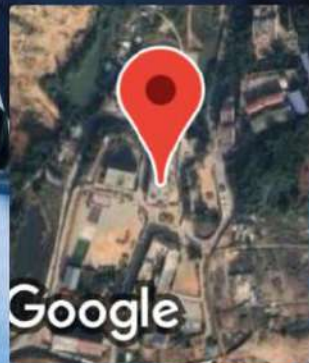
Long 91.845204°

30/11/22 12:47 PM GMT +05:30





GPS Map Camera



## Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi,  
Meghalaya Umling, Meghalaya 793101, India

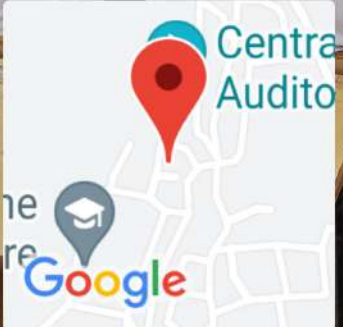
Lat 26.10035°

Long 91.845163°

30/11/22 01:40 PM GMT +05:30



GPS Map Camera



**Khanapara, Meghalaya, India**  
4R2V+6VH, Khanapara, Meghalaya 781022, India  
Lat 26.10067°  
Long 91.845189°  
01/12/22 10:36 AM

$\text{BaCO}_3(\text{s}) + \text{TiO}_2(\text{s}) \xrightarrow{1000^\circ\text{C}} \text{BaTiO}_3(\text{s}) + \text{CO}_2(\text{g})$   
 $12\text{Y}_2\text{O}_3(\text{s}) + 28\text{BaCO}_3(\text{s}) + 3\text{Cu}_2\text{O}(\text{s}) + 14\text{O}_2 \xrightarrow{830^\circ\text{C}} \text{Clear} + 450^\circ\text{CO}_2(\text{g}) + 28\text{BaCu}_2\text{O}_7(\text{s}) + 2\text{CO}_2(\text{g})$

-> High temperatures are used in these syntheses to accelerate the slow diffusion of ions in solids and to overcome the high Coulombic attraction between the ions.

-> The direct method is applicable to many other inorganic material types, such as the syntheses of complex chlorides and dense, anhydrous metal alumosulfates.

$3\text{CsCl}(\text{s}) + 2\text{SeCl}_2(\text{s}) \rightarrow \text{Cs}_2\text{Se}_2\text{Cl}_7(\text{s})$   
 $\text{NaAlO}_2(\text{s}) + \text{SiO}_2(\text{s}) \rightarrow \text{NaAlSiO}_3(\text{s})$

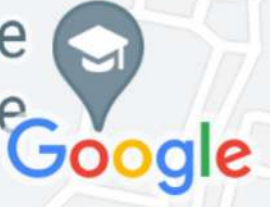
Q: The rotational const. of  $^{14}\text{N}_2$  is  $2.84 \times 10^{-47} \text{ erg cm}^2$ . The wave number of incident radiation in a Raman spectrum is  $20437 \text{ cm}^{-1}$ . What is the wave number of first scattered Stokes line ( $\text{cm}^{-1}$ ) of  $^{14}\text{N}_2$ ?

**THE COLOUR AND AROMA OF ROSES**

THE AROMA OF ROSES

 GPS Map Camera

 Central Auditorium

 Google

**Ri Bhoi, Meghalaya, India**  
 Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya Umling,  
 Meghalaya 793101, India  
 Lat 26.100652°  
 Long 91.845189°  
 01/12/22 10:24 AM



**What are peptoids?**

- The term peptoids describes peptide analogs that exhibit better physicochemical and pharmacokinetic properties than peptides
- In peptoids, side chains are attached to the main nitrogen instead of alpha-carbons



 GPS Map Camera



Central  
Audito

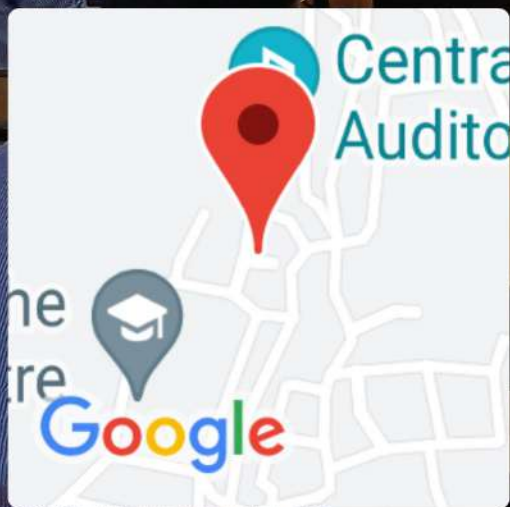


**Ri Bhoi, Meghalaya, India**  
 Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya Umling,  
 Meghalaya 793101, India  
 Lat 26.100747°  
 Long 91.845214°  
 01/12/22 10:39 AM





GPS Map Camera



Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100571°

Long 91.845143°

01/12/22 10:47 AM



GPS Map Camera

The logo for Central Auditorium, featuring a red location pin icon with the text "Central Auditorium" in blue. Below it is the Google logo with a graduation cap icon.

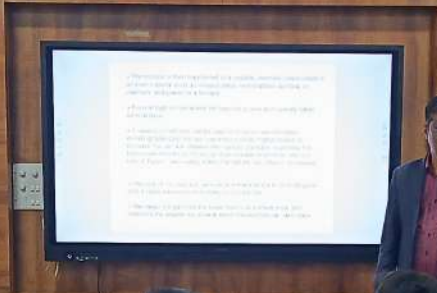
Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya Umling,  
Meghalaya 793101, India

Lat 26.100737°

Long 91.845265°

01/12/22 10:50 AM

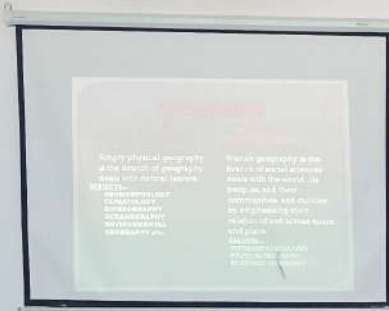


GPS Map Camera

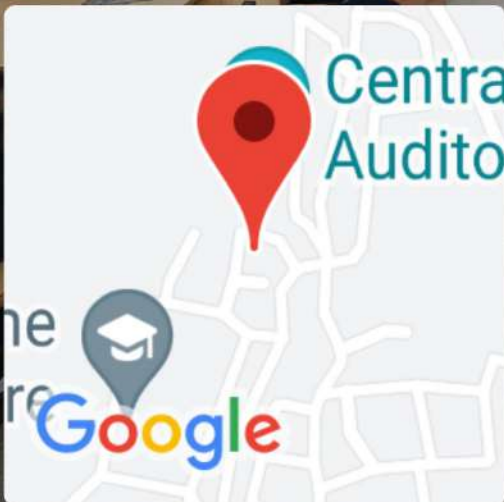
Central  
Audito

Google

**Khanapara, Meghalaya, India**  
**4R2V+6VH, Khanapara, Meghalaya 781022, India**  
**Lat 26.100573°**  
**Long 91.845109°**  
**01/12/22 10:57 AM**



GPS Map Camera



Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.10076°

Long 91.845203°

01/12/22 11:01 AM





$$4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$$
$$2\text{Fe} + 3\text{Cl}_2 \rightarrow 2\text{FeCl}_3$$
$$2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$$
$$\text{Ca} + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2$$

High temperatures are used in these reactions to overcome the slow diffusion of atoms or ions and to overcome the high activation energy barrier for the reaction.

The direct method is applicable to many other inorganic material types, such as the synthesis of complex oxides and nitrides, carbides, nitrides, and phosphides.

$$3\text{C}(\text{s}) + 2\text{SiCl}_4(\text{g}) \rightarrow \text{C}_3\text{Si}_2\text{Cl}_2(\text{s})$$
$$\text{NaAlO}_2(\text{s}) + \text{SiO}_2(\text{s}) \rightarrow \text{NaAlSiO}_4(\text{s})$$


GPS Map Camera



Central  
Audito

Ri Bhoi, Meghalaya, India

Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya Umling,

Meghalaya 793101, India

Lat 26.10069°

Long 91.845211°

01/12/22 11:29 AM

Google

Structure of a Volcano

Magma - the molten, or liquid-like, rock within the Earth

Lava - magma that reaches Earth's surface

Vent - an opening through which molten (liquid-like) rock flows onto Earth's surface

viscosity, resistance of a fluid to flow.

Volcanoes always have one central vent, but can also have several smaller side vents.

 GPS Map Camera

 Central Auditorium



**Khanapara, Meghalaya, India**  
**4R2V+6VH, Khanapara, Meghalaya 781022, India**  
**Lat 26.100616°**  
**Long 91.845146°**  
**01/12/22 11:08 AM**



**ৱাৰ্ডাৰীয়াৰ আৰু প্ৰতিভাৰ উন্নয়ন**

ৱাৰ্ডাৰীয়াৰ আৰু প্ৰতিভাৰ উন্নয়ন হৈছে এক সামগ্ৰিক প্ৰক্ৰিয়া যিটোৰে মাজেৰে শিশু বা এজন মানুহে নিজৰ জীৱনৰ বিভিন্ন ক্ষেত্ৰত নিজৰ প্ৰতিভা আৰু প্ৰতিভাৰ উন্নয়ন কৰিব পাৰিব। ইয়াৰ লক্ষ্য হৈছে এজন মানুহক এনেদৰে প্ৰস্তুত কৰা যেনে তেওঁৰ জীৱনৰ বিভিন্ন ক্ষেত্ৰত নিজৰ প্ৰতিভা আৰু প্ৰতিভাৰ উন্নয়ন কৰিব পাৰিব।

এই প্ৰক্ৰিয়াটো হৈছে সামগ্ৰিক উন্নয়ন (মুঠ মানুহৰ উন্নয়ন) আৰু ইয়াত শাৰীৰিক, মানসিক, মূল্যবোধ আৰু সামাজিক ক্ষেত্ৰত নিজৰ প্ৰতিভা আৰু প্ৰতিভাৰ উন্নয়ন কৰিব পাৰিব।

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Umling, Meghalaya 793101, India  
Lat 26.100726°  
Long 91.84524°  
01/12/22 11:16 AM

➤ Mendeleef had not left any space for the noble gases in the periodic Table  
➤ Obviously, he could not imagine the existence of elements which have almost no chemical reactivity.



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**01/12/22 11:14 AM**



Some gases, as mixtures of compounds of their gases, participate of acids and oxygen have been prepared, the elements their produce not completely pure.

They are called mixed gases instead of pure gases which implies that these gases have some activity.

Because of the low abundance of these gases as such they have not been called pure gases.

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Lat 26.10091°  
Long 91.845343°  
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$\text{BaCO}_3(\text{s}) + \text{TiO}_2(\text{l}) \xrightarrow{1000^\circ\text{C}} \text{BaTiO}_3(\text{s}) + \text{CO}_2(\text{g})$   
 $\frac{1}{2}\text{Y}_2\text{O}_3(\text{s}) + 2\text{BaCO}_3(\text{s}) + 3\text{CuO}(\text{s}) + 1\text{Al}_2\text{O}_3 \xrightarrow{930^\circ\text{C}} \text{Ba}_2\text{Cu}_3\text{Al}_2\text{O}_{10}(\text{s}) + 2\text{CO}_2(\text{g})$   
 $\text{YBa}_2\text{Cu}_3\text{O}_7(\text{s}) + 2\text{CO}_2(\text{g})$

> High temperatures are used in these syntheses to accelerate the slow diffusion of ions in solids and to overcome the high Coulombic attractions between the ions.  
 > The direct method is applicable to many other inorganic material types, such as the synthesis of complex chlorides and dense, anhydrous metal aluminosilicates.

$3\text{CsCl}(\text{s}) + 2\text{ScCl}_3(\text{s}) \rightarrow \text{Cs}_3\text{Sc}_2\text{Cl}_9(\text{s})$   
 $\text{NaAlO}_2(\text{s}) + \text{SiO}_2(\text{s}) \rightarrow \text{NaAlSiO}_4(\text{s})$

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**Ri Bhoi, Meghalaya, India**  
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 Umling, Meghalaya 793101, India  
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 Long 91.845428°  
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Ri Bhoi, Meghalaya, India

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Long 91.84528°

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Under excited condition. Sparging Helium at low pressure in presence of mercury, tungsten etc. forms compounds like  $HgHe_2$ ,  $HgHe_{10}$ ,  $WHe_2$ .

Helium compounds are also formed in discharge tubes like  $BHe_2$ ,  $TeHe$ ,  $F_2He$ ,  $PdHe$ . These compounds are not considered as true chemical compounds as He is adsorbed on the surface.



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Long 91.845232°

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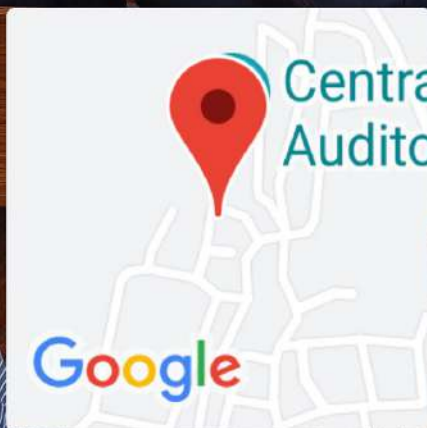
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$\text{BaCO}_3(\text{s}) + \text{TiO}_2(\text{s}) \xrightarrow{1000^\circ\text{C}} \text{BaTiO}_3(\text{s}) + \text{CO}_2(\text{g})$

$1/2\text{V}_2\text{O}_5(\text{s}) + 2\text{BaCO}_3(\text{s}) + 3\text{CaO}(\text{s}) \xrightarrow{1140^\circ\text{C}, 810^\circ\text{C} \text{ and } 450^\circ\text{C}} \text{V}_6\text{O}_{13}(\text{s}) + 2\text{CO}_2(\text{g})$

> High temperatures are used in these syntheses to accelerate the slow diffusion of ions in solids and to overcome the high Coulombic attractions between the ions.

> The direct method is applicable to many other inorganic material types, such as the syntheses of complex chlorides and dense, anhydrous metal aluminosilicates.

$3\text{CsCl}(\text{s}) + 2\text{ScCl}_3(\text{s}) \rightarrow \text{Cs}_3\text{Sc}_2\text{Cl}_7(\text{s})$

$\text{NaAlO}_2(\text{s}) + \text{SiO}_2(\text{s}) \rightarrow \text{NaAlSiO}_4(\text{s})$



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**Optimal material**

All of the optimal components are... (text is small and partially illegible)

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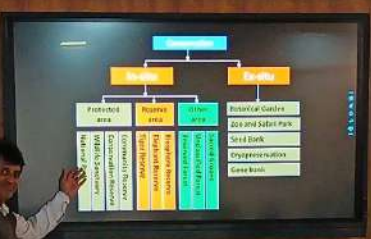
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Meghalaya 793101, India

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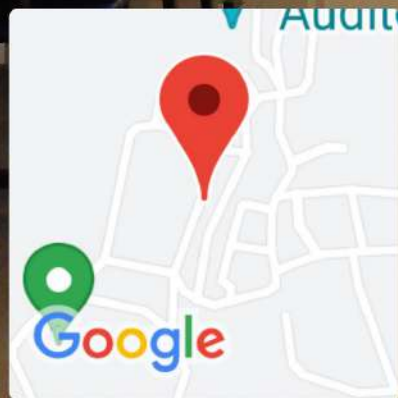


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Ri Bhoi, Meghalaya, India  
 3RXV+VQ5, Hostel Rd, Meghalaya 781022, India  
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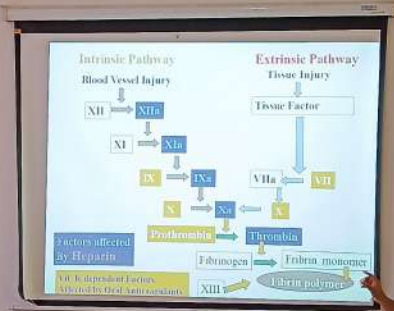
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Meghalaya 793101, India

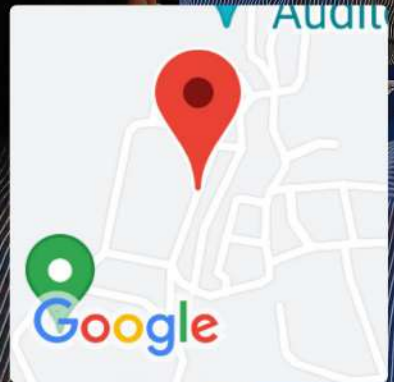
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 Meghalaya 793101, India  
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To explore the Hardy-Weinberg equation, we can examine a simple genetic locus at which there are two alleles, A and a. The Hardy-Weinberg equation is expressed as:  
 $p + q = 1$  (formula for allelic frequency)  
 $p^2 + 2pq + q^2 = 1$  (formula for genotype frequency)

Where p is the frequency of the "A" allele and q is the frequency of the "a" allele in the population.

In the equation:  
 $p^2$  represents the frequency of the homozygous genotype AA,  
 $q^2$  represents the frequency of the homozygous genotype aa, and  
 $2pq$  represents the frequency of the heterozygous genotype Aa.

Handwritten notes on the chalkboard include the equation  $p^2 + 2pq + q^2 = 1$  and a Punnett square for a monohybrid cross.

Genotype	Allele	Frequency
A	A	$p^2$
B	a	$q^2$
AB	Aa	$2pq$
a	a	$q^2$

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29/11/22 02:23 PM



What is the muscular system?

- Each muscle consists of a group of fibers held together by connective tissue, and enclosed in a fibrous sheath or fascia.



Audit

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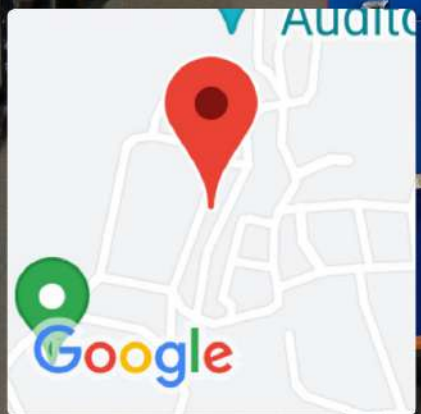
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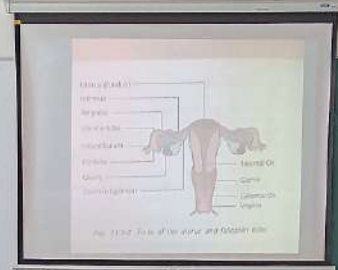
**Sexually Transmitted Diseases (STD)**  
 A group of communicable diseases which are transmitted predominantly or entirely by sexual contact  
 • STDs may present as genital ulcers, genital discharge without any genital lesions or only as asymptomatic inflammation.  
 • The common STDs are

- 1. Bacterial
  - 1) Syphilis
  - 2) Gonorrhoea
  - 3) Trichomonas Vaginitis
- 2. Viral
  - 1) HIV - 1/2
  - 2) Herpes Simplex Virus
  - 3) Human Papilloma Virus
  - 4) Hepatitis B
  - 5) Hepatitis C
  - 6) Epstein-Barr Virus
- 3. Protozoal - Trichomonas Vaginitis

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 29/11/22 10:34 AM



Subsantinal Canal  
Duct of Uterus

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## Baridua, Meghalaya, India

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Meghalaya 793101, India

Lat 26.099296°

Long 91.844934°

29/11/22 10:46 AM



**Adults- Definition, Nature & Aims of Education**

**Definition:**

Education is a systematic process through which a child or an adult acquires knowledge, experience, skill and good attitude. It makes an individual intelligent, refined, cultured and educated. Its goal is to make an individual perfect. It is the key to solve the various problem of life.

**Nature:**

True education is the harmonious development (all round development) of the physical, mental, moral (spiritual) and social fields, the four dimensions of life, for a life of dedicated service.



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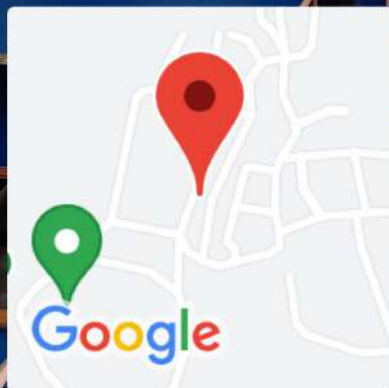
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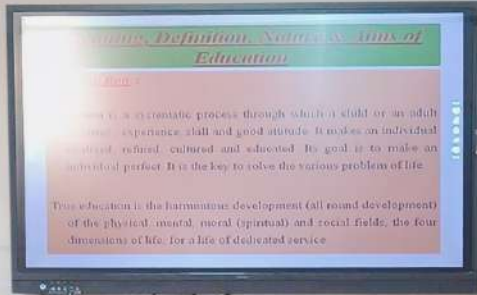
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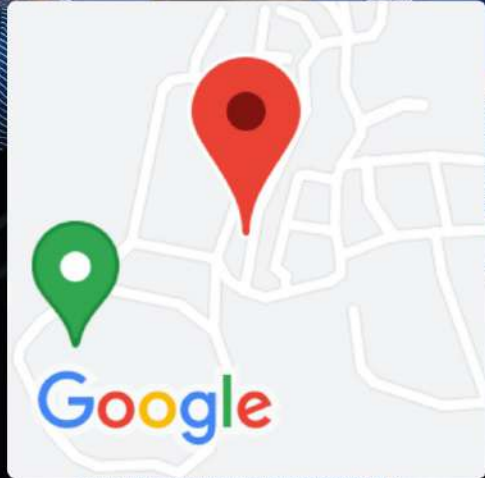
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29/11/22 11:28 AM



**DEFINITION**

It is a state of complete physical, mental, and social well-being.

**DIMENSIONS OF HEALTH**


**PHYSICAL:** All kinds of regular exercise to enhance cardiovascular health, performance and flexibility, reduce a physical weakness.

**MENTAL:** Ability to handle stress, to think, to learn, to solve the problem.

**EMOTIONAL:** Ability to control the feelings, to get enough exercise to keep up an activity level.

**ENVIRONMENTAL:**

1. Enough sleep is essential.
2. Good nutrition for health.
3. Regular exercise and have regular health check-up.
4. Proper of health maintenance through improvement in observation, self-control and self-esteem.
5. Understanding the role of health parameters: weight, cholesterol, blood pressure, blood sugar, etc. for disease control.

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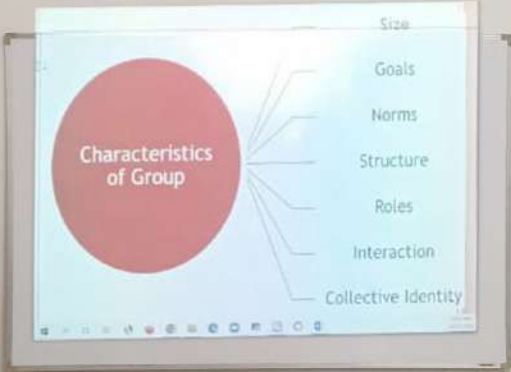
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Long 91.844009°  
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**General anaesthetics**

- Anaesthesia (in G.S. reversible or without feeling)
- G.A. = the agents which produce reversible loss of all sensations & consciousness

**Cardinal Features**

- Loss of all sensations (pain)
- Sleep and Amnesia
- Immobility and Muscle relaxation
- Abolition of reflexes

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 Lat 26.098643°  
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**CHEMICAL MEDIATORS OF INFLAMMATION**

- These are the substances that diffuse into injured tissues to initiate the inflammatory response.
- They are released by cells in response to injury or infection.
- They cause the characteristic signs of inflammation: redness, swelling, heat, and pain.
- They also play a role in the healing process.
- Some mediators are produced by cells, while others are released from the circulation.
- They can be classified into primary and secondary mediators.
- They are involved in the regulation of the immune response.
- They are also involved in the regulation of the nervous system.
- They are also involved in the regulation of the endocrine system.

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- The centre  
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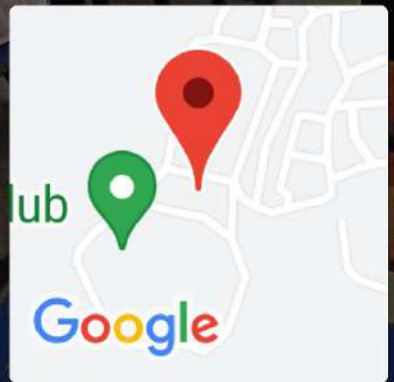
29/11/22 12:02 PM



**CHEMICAL MEDIATORS OF INFLAMMATION**

- These pro-inflammatory mediators cause cell-tissue damage.
- General properties of chemical mediators:**
  - They are derived from preformed mediators (e.g. histamine, serotonin, complement C3a, C5a) and from mediators synthesized de novo.
  - They are derived from cells (e.g. mast cells, eosinophils, neutrophils, macrophages, platelets, endothelial cells, epithelial cells, and keratinocytes).
  - They are produced only in response to specific tissue damage.
  - They cause a wide range of cellular and tissue responses.
  - They are derived from the same or different cells by a common pathway.
  - They cause an increase in vascular permeability, vasodilation, and pain.
  - They cause an increase in vascular permeability, vasodilation, and pain.

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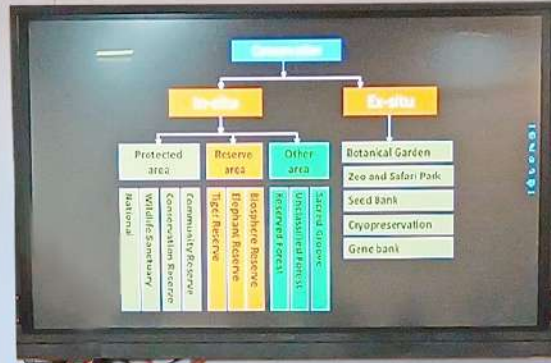
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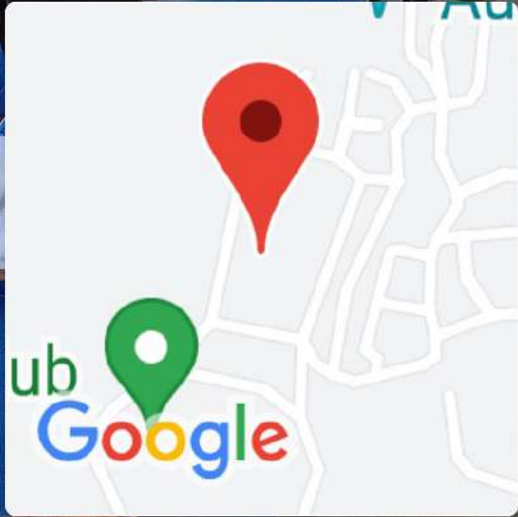
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Lat 26.099424°

Long 91.844219°

29/11/22 01:14 PM



**Characteristics of Management**

- Management is a goal-oriented process.
- Management is a discipline.
- Management is a continuous process.
- Management is a group activity.
- Management is an intangible activity.
- Management is a social activity.
- Management is an interdisciplinary activity.
- Management is a dynamic activity.

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India

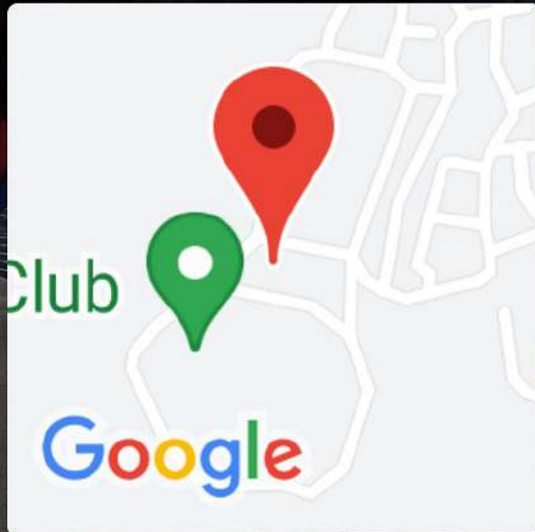
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**29/11/22 01:40 PM**



**Consumer Protection in India**

**Ancient Period:** Vedas, Manu Smriti (800 BC - 600 BC), Narada Smriti (500 AD - 1000 AD), Kautilya's Arthashastra

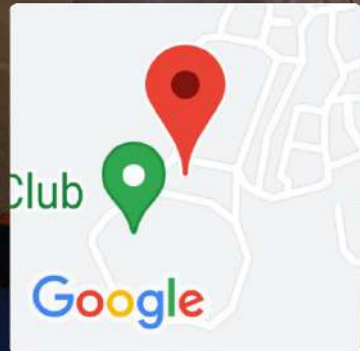
Do not feel the role of the State in regulating trade and its duty to prevent crimes against consumers.

**Medieval Period**

The Holy Quran has verses that indicate that the use of unjust weights and measures is unacceptable. During the period of the Sultanate, local conditions determined the price of commodities.

Both the Hindu and the Muslim scriptures that were being used together by the kings of different states of India promoted consumer protection.

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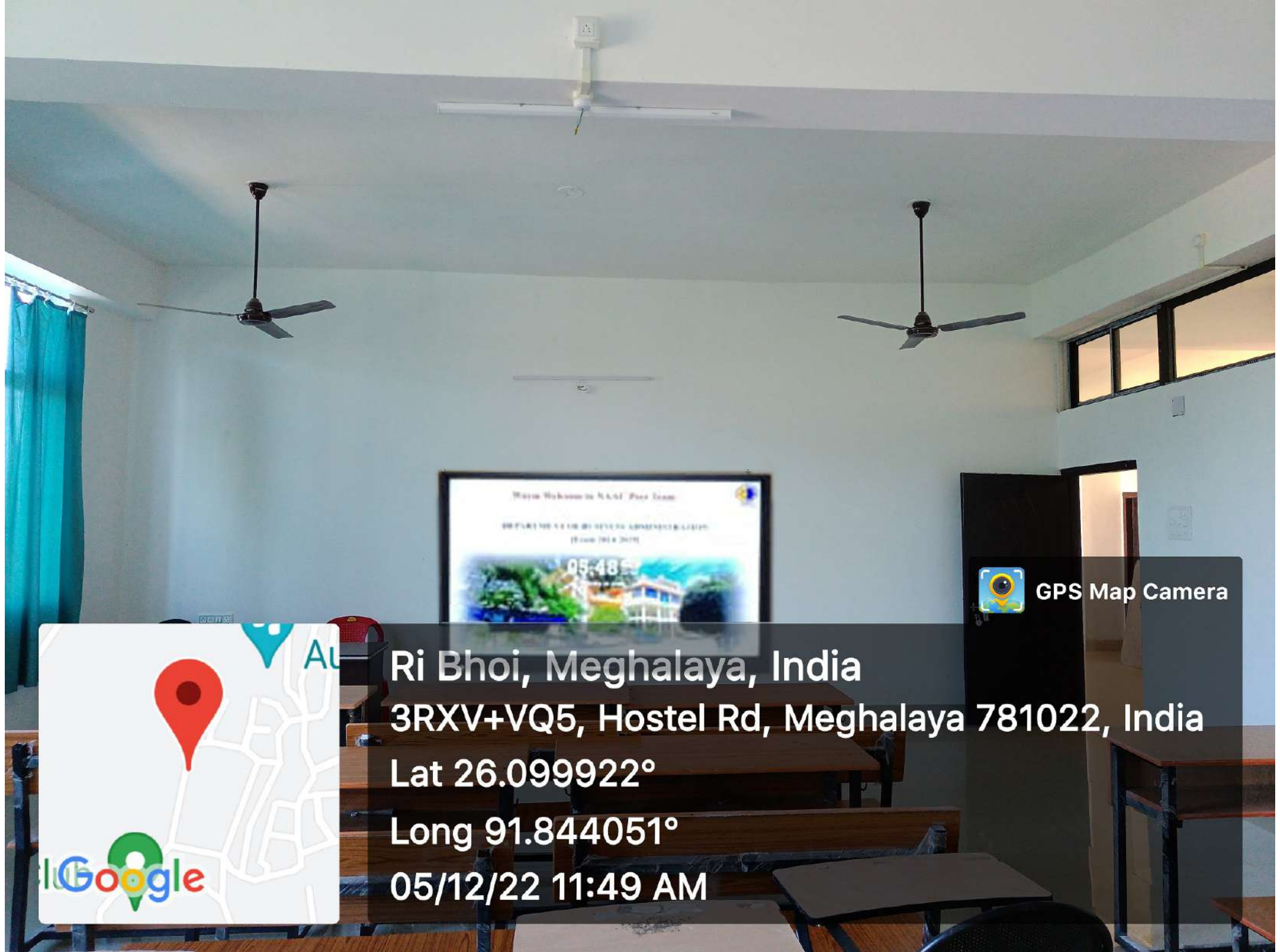
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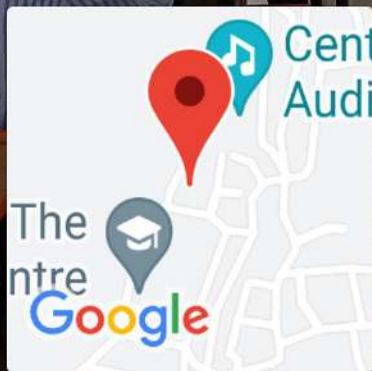
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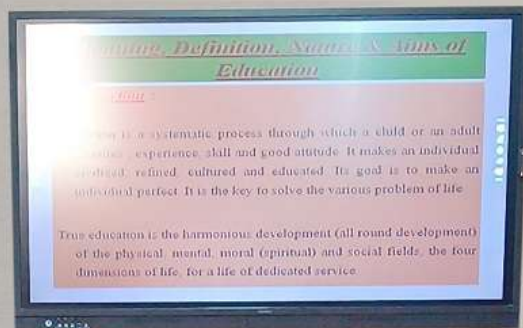
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4R2V+6VH, Khanapara, Meghalaya 781022, India

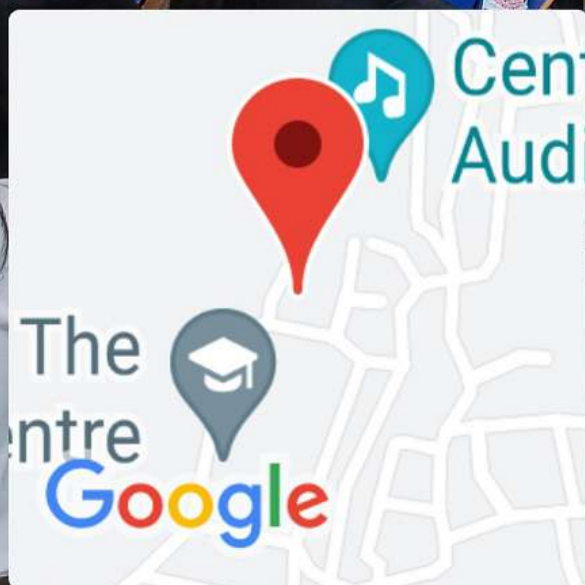
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30/11/22 10:03 AM



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**Khanapara, Meghalaya, India**

**4R2V+6VH, Khanapara, Meghalaya 781022, India**

**Lat 26.100552°**

**Long 91.844613°**

**30/11/22 10:06 AM**



$\text{BaCO}_3(s) + \text{TiO}_2(s) \xrightarrow{1000^\circ\text{C}} \text{BaTiO}_3(s) + \text{CO}_2(g)$


$1/2\text{V}_2\text{O}_5(s) + \text{Sb}_2\text{CO}_3(s) \xrightarrow{\text{air}} \text{Sb}_2\text{O}_3(s) + 1/2\text{V}_2\text{O}_5(s) + \text{CO}_2(g)$   
 $\text{V}_2\text{O}_5(s) + \text{CO}_2(g)$



> High temperatures are used in these syntheses to accelerate the slow diffusion of ions in solids and to overcome the high Coulombic attractions between the ions.


> The direct method is applicable to many other inorganic material types, such as the syntheses of complex chlorides and dense, anhydrous metal aluminosilicates.


$3\text{CsCl}(s) + 2\text{ScCl}_3(s) \rightarrow \text{Cs}_2\text{Sc}_2\text{Cl}_7(s)$

$\text{NaAlO}_2(s) + \text{SiO}_2(s) \rightarrow \text{NaAlSiO}_4(s)$

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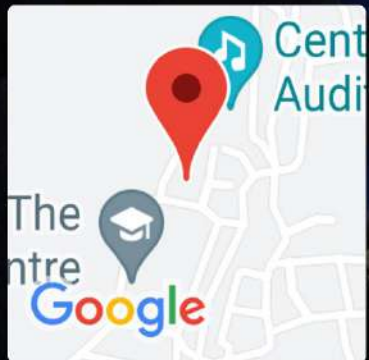
**Ri Bhoi, Meghalaya, India**  
Killing Road 9th mile, Baridua, Ri Bhoi, Meghalaya  
Umling, Meghalaya 793101, India  
Lat 26.100337°  
Long 91.845058°  
30/11/22 10:28 AM



**NATIONAL EDUCATION POLICIES**

- The National Education Policy of 1968 under the Government of India/Gandhi
- The National Education Policy of 1986 under the Government of Rajiv Gandhi
- Program of Action (POA) 1992 by the Government of P. V. Narasimha Rao
- The National Education Policy 2020 under the Government of Shri Narendra Modi

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**Khanapara, Meghalaya, India**

4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100544°

Long 91.844718°

30/11/22 10:24 AM





**Bloom's Domains of Learning**  
(Higher order skills are on top)

Cognitive	Affective	Psychomotor
• Evaluation	• Characterizing	• Origination
• Synthesis	• Organizing	• Adaptation
• Analysis	• Valuing	• Complex Overt Response
• Application	• Responding	• Response
• Comprehension	• Receiving	• Mechanism
• Knowledge		• Guided Response
		• Set
		• Perception

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Baridua, Meghalaya, India

4R2V+7QC, Baridua, Meghalaya 781022, India

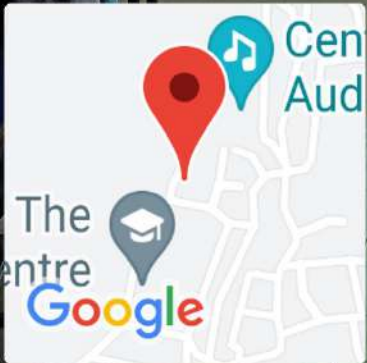
Lat 26.100698°

Long 91.844569°

30/11/22 10:30 AM

### The Cognitive Domain

The Cognitive Domain is a Knowledge-based Domain. It includes knowledge and development of intellectual skills. The cognitive domain contains learning skills predominantly related to mental (thinking) processes. Learning processes in the cognitive domain include a hierarchy of skills involving processing information, constructing understanding, applying knowledge, solving problems and conducting research. There are six(6) levels in cognitive complexity: (1)Knowledge, (2)Comprehension, (3)Application, (4)Analysis, (5)Synthesis & (6)Evaluation.



**Khanapara, Meghalaya, India**

4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100558°

Long 91.844555°

30/11/22 10:35 AM





**Administration: Definitions**

- Luther Gulick, "Administration has to do getting things done, with the accomplishment of defined objectives"
- L. D. White, "The art of administration is the direction, coordination and control of many persons to achieve some purpose or objective"
- Herbert Simon, "Administration is the activities of groups cooperating to accomplish common goals"

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**Khanapara, Meghalaya, India**

4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100532°


Long 91.844732°

30/11/22 11:21 AM

**Concept and Meaning:**

- The process of dispersing or distributing decision making power to the smaller units is known as DECENTRALIZATION.
- It is referred to as a form of an organizational structure where there is the delegation of authority by the top management to the middle and lower levels of management in an organization.
- In a simple way, when delegation is expanded on an organizational level, then it is called DECENTRALIZATION.



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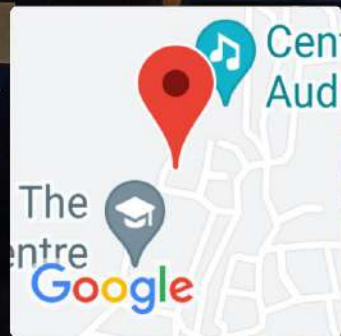
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4R2V+6VH, Khanapara, Meghalaya 781022, India

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**Khanapara, Meghalaya, India**

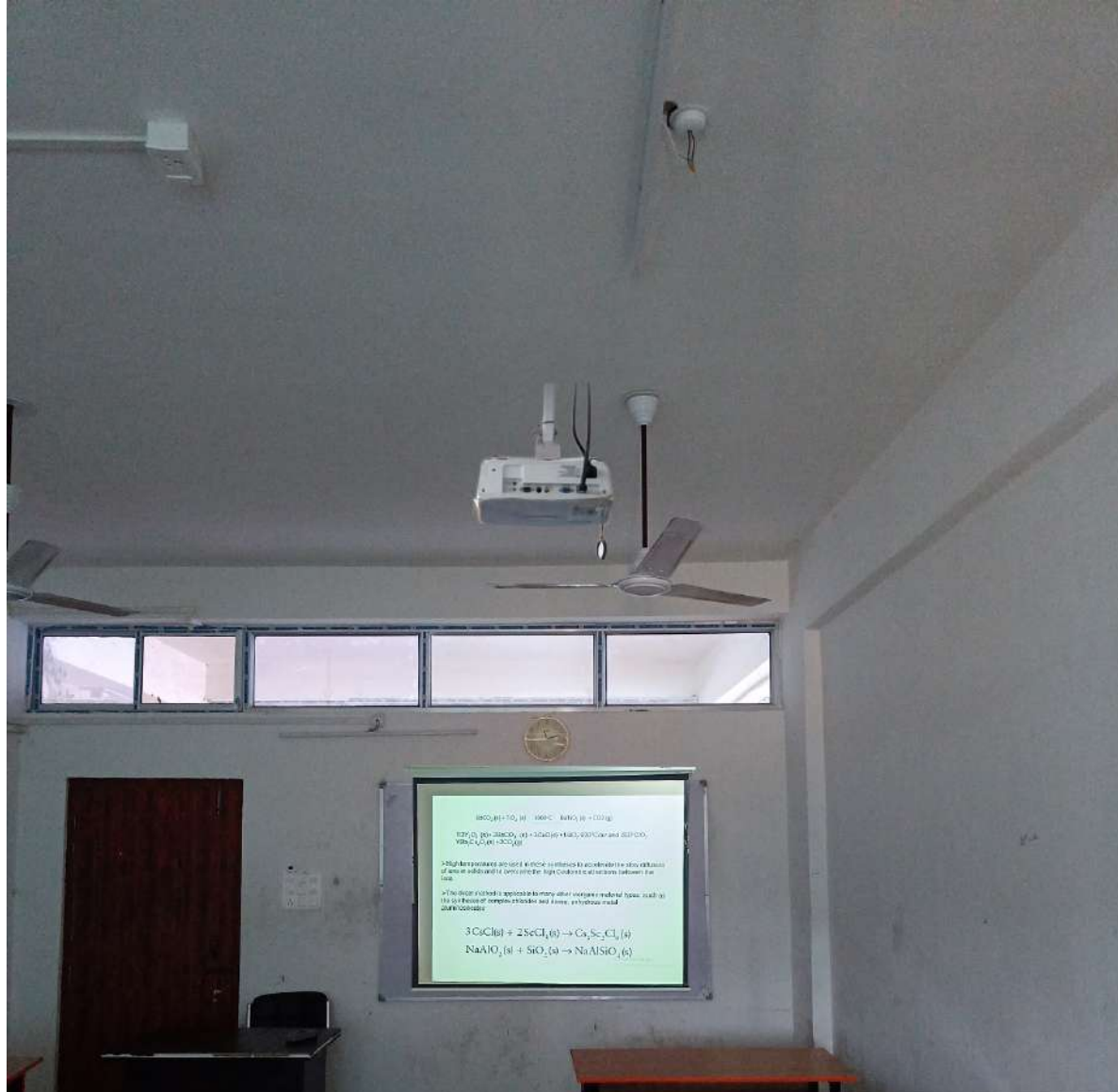
4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100579°

Long 91.844586°

30/11/22 11:32 AM

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$3 \text{CuCl}_2 + 2 \text{SeCl}_6 \rightarrow \text{Cu}_3\text{Se}_2\text{Cl}_4$  (s)  
 $\text{NaAlO}_2 + \text{SiO}_2 \rightarrow \text{NaAlSiO}_4$  (s)

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**Khanapara, Meghalaya, India**  
 4R2V+6VH, Khanapara, Meghalaya 781022, India  
 Lat 26.100566°  
 Long 91.844741°  
 05/12/22 11:12 AM




**Quality Definition: National Curriculum Framework for School Education**

Education is a systematic process through which a child or an adult acquires knowledge, skills and good attitudes. It nurtures an individual's cognitive, cultural, emotional and physical development. The goal is to make an individual a responsible citizen. The key to solve the various problems of life.

This education should focus on the development (all round development) of the physical, mental, social, emotional and cultural growth. The four dimensions of life. For a life of dedicated service.



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 Centre for Audio-Visual Education

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**Khanapara, Meghalaya, India**

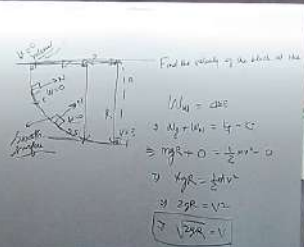
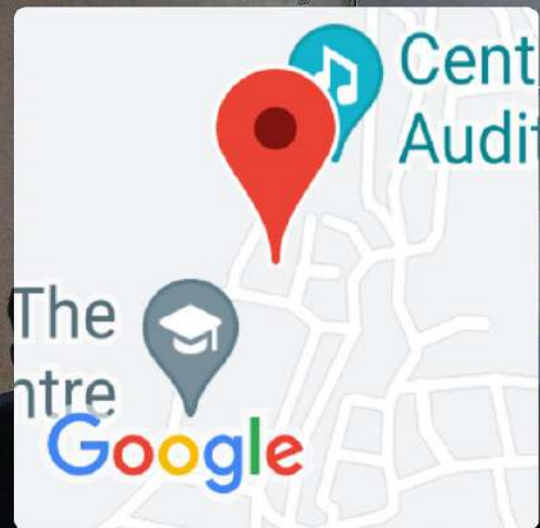
4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100544°

Long 91.844722°

30/11/22 11:37 AM





$CaCO_3(s) + HCl(aq) \rightarrow CaCl_2(aq) + CO_2(g) + H_2O(l)$

$12Y_2O_3(s) + 3BaCO_3(s) + 3CaO(s) + 14O_2(g) \rightarrow 4BaCO_3(s) + 4CaCO_3(s) + 12CO_2(g)$

- High temperatures are used in these processes to accelerate the slow diffusion of ions in solids and to overcome the high Coulombic attractions between the ions.

- The direct method is applicable to many other inorganic reactions, such as the synthesis of complex chlorides and dense, refractory metal phosphates.

$3CsCl(s) + 2SeCl_6(s) \rightarrow Cs_3Se_2Cl_9(s)$

$NaAlO_2(s) + SiO_2(s) \rightarrow NaAlSiO_4(s)$



**Khanapara, Meghalaya, India**  
**4R2V+6VH, Khanapara, Meghalaya 781022, India**  
**Lat 26.100556°**  
**Long 91.844762°**  
**30/11/22 11:59 AM**




$2\text{KNO}_3(\text{s}) \rightarrow 2\text{KNO}_2(\text{s}) + \text{O}_2(\text{g})$   
 $2\text{KNO}_3(\text{s}) \rightarrow 2\text{K}_2\text{O}(\text{s}) + \text{N}_2(\text{g}) + 5\text{O}_2(\text{g})$   
 $\text{Pb}(\text{NO}_3)_2(\text{s}) \rightarrow \text{PbO}(\text{s}) + 2\text{NO}_2(\text{g}) + \text{O}_2(\text{g})$



High temperatures are used in these systems to accelerate the rate of reaction of the solids and overcome the high activation energies of the solid-state reactions.


The reactions are exothermic and other chemical reactions may occur in the presence of complex mixtures of solids and gases.

$3\text{CaCl}_2(\text{s}) + 2\text{SiCl}_4(\text{g}) \rightarrow \text{Ca}_3\text{Si}_2\text{Cl}_{14}(\text{s})$   
 $\text{NaAlO}_2(\text{s}) + \text{SiO}_2(\text{s}) \rightarrow \text{NaAlSiO}_4(\text{s})$



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## Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022, India


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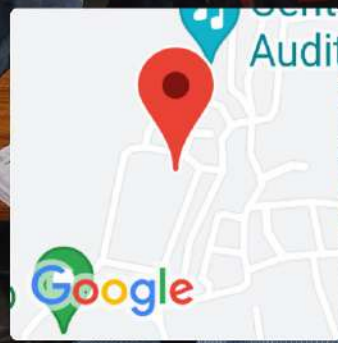



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**Khanapara, Meghalaya, India**  
 4R2V+6VH, Khanapara, Meghalaya 781022, India  
 Lat 26.10062°  
 Long 91.844701°  
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Ri Bhoi, Meghalaya, India

3RXV+VQ5, Hostel Rd, Meghalaya 781022, India

Lat 26.100025°

Long 91.844807°

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**Meaning, Definition, Scope & Aims of Education**

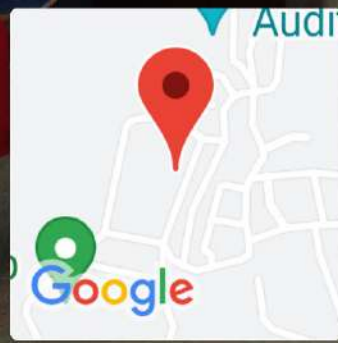
**Meaning:**

Education is a systematic process through which a child or an adult acquires, organizes, skill and good attitudes. It makes an individual cultured, educated and adjusted. Its goal is to make an individual perfect. It is the key to solve the various problems of life.

**Aims:**

This education is the harmonious development (all round development) of the physical, mental, moral, emotional and social facets, the true foundations of life, for a life of dedicated service.

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**Ri Bhoi, Meghalaya, India**

3RXV+VQ5, Hostel Rd, Meghalaya 781022, India

Lat 26.099645°

Long 91.844775°

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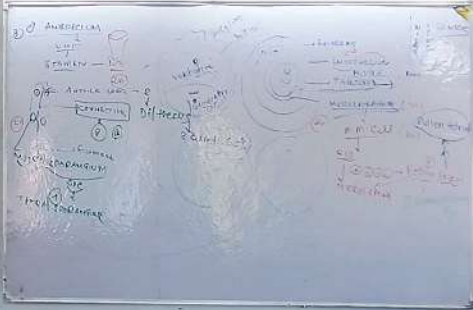
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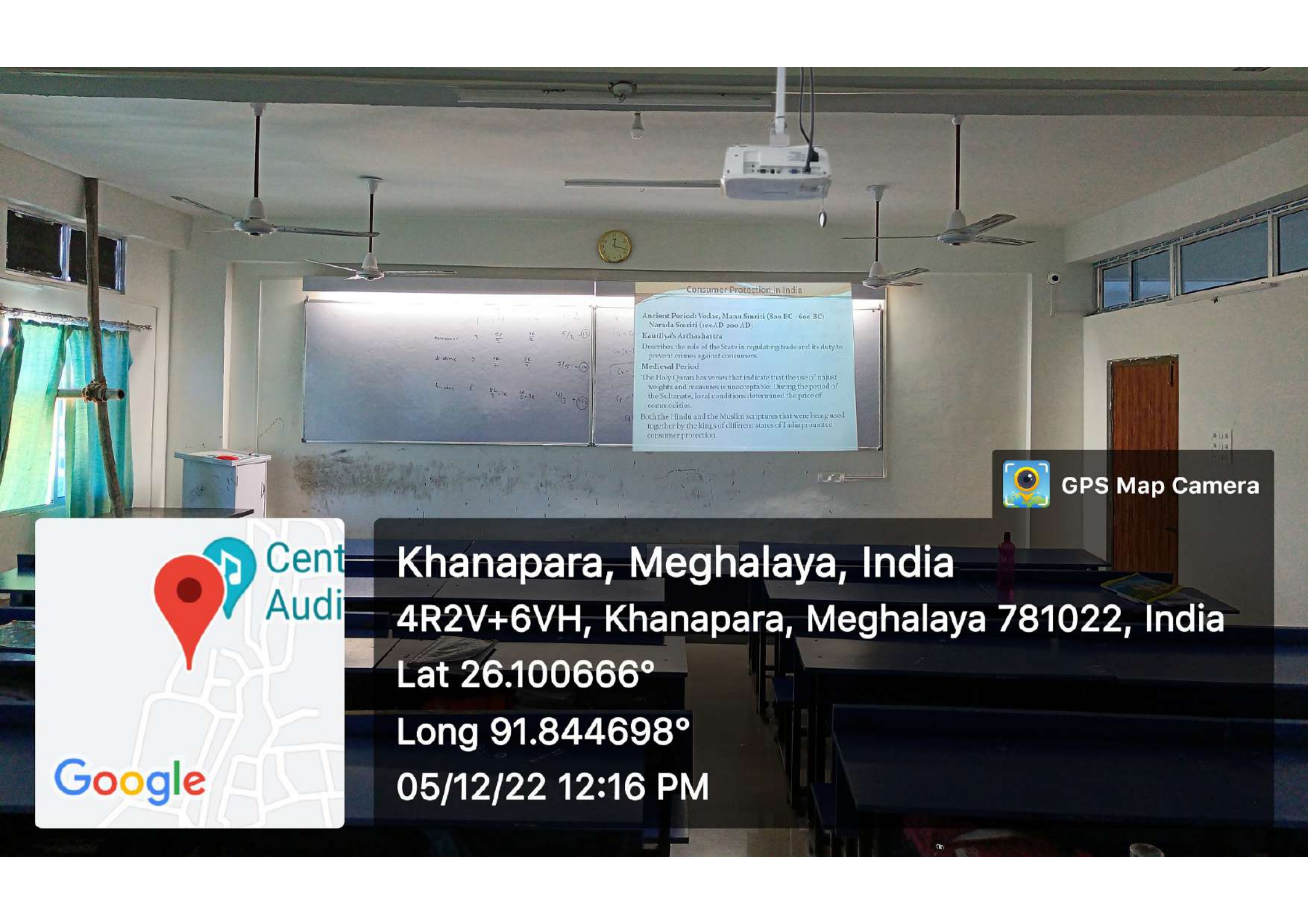
# Khanapara, Meghalaya, India

4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100657°

Long 91.844983°

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Consumer Protection in India

**Ancient Period:** Vedas, Manu Smriti (800 BC - 600 BC)  
 Narada Smriti (100 AD - 200 AD)  
**Kautilya's Arthashastra**  
 Describes the role of the State in regulating trade and its duty to prevent crimes against consumers.

**Medieval Period**  
 The Holy Quran has verses that indicate that the use of unjust weights and measures is unacceptable. During the period of the Sultanate, local conditions determined the price of commodities.  
 Both the Hindu and the Muslim scriptures that were being used together by the kings of different states of India promoted consumer protection.



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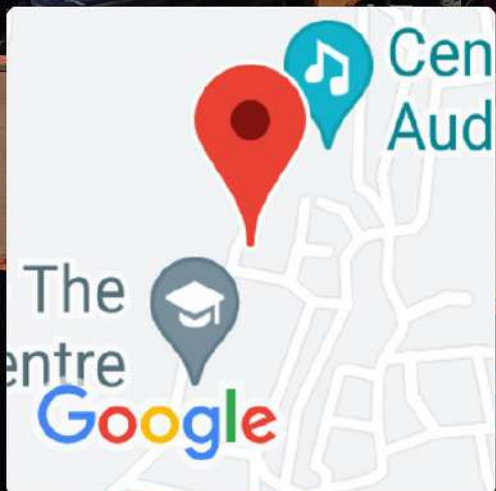


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**Lat 26.100666°**  
**Long 91.844698°**  
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**Khanapara, Meghalaya, India**

4R2V+6VH, Khanapara, Meghalaya 781022, India

Lat 26.100532°

Long 91.844539°

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Repeats = C

$$\text{BaCO}_3(s) + \text{TiO}_2(s) \xrightarrow{3000^\circ\text{C}} \text{BaTiO}_3(s) + \text{CO}_2(g)$$

$$1/2\text{Y}_2\text{O}_3(s) + 2\text{BaCO}_3(s) + 3\text{CuCl}_2(s) + 1\text{TiO}_2(s) \xrightarrow{800^\circ\text{C}} \text{Ba}_2\text{Cu}_3\text{O}_{10}(s) + 3\text{CO}_2(g)$$

- High temperatures are used in these syntheses to accelerate the slow diffusion of ions in solids and to overcome the high Coulombic attractions between the ions.
- The direct method is applicable to many other inorganic material types, such as the syntheses of complex chlorides and dense, anhydrous metal aluminosilicates.

$$3\text{CsCl}(s) + 2\text{ScCl}_3(s) \rightarrow \text{Cs}_2\text{Sc}_2\text{Cl}_7(s)$$

$$\text{NaAlO}_2(s) + \text{SiO}_2(s) \rightarrow \text{NaAlSiO}_4(s)$$

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