

# Serampore Girls' College

13, T.C. Goswami Street Serampore Hooghly - 712201 West Bengal

## NAAC Criteria 3.2.1



### Ecosystem for Innovations

## LABORATORY

### Department of Geography

#### GIS LAB (SB-33)

In the Geographical Study involves Practical work(Semester-5th Hons) in GIS comprising of topics i-e Introduction and Installation of GIS, Extraction of data from “Google Earth” into “Q-GIS”(3.10), Insertion of data into several layers.Study aim is to provide image-based



guidance to the beginners so that they will become able to use the basics of GIS tool and get



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benefits from GIS.

### SOIL LAB (SB-36)

Our soil laboratory introduced purely for syllabus of 4th semester honours as per CU CBCS system. This soil lab, providing a tangible way to learn about soil reaction (pH) and salinity using field kit. We collect various soil samples from the field of the students. Instruments



are available in lab-soil kit, Refractometer, pH strip, sieve, oven, weighted machine, measuring glass, filter paper, test tube, etc.

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**DEPARTMENT OF GEOGRAPHY**  
**SERAMPORE GIRLS' COLLEGE**  
**Determination of Soil pH Using pH Meter**

Collecting soil sample from the 'V' cut zone

Remove roots, pebbles and gravels

Put the soil into the oven(105°-110° celsius)

Measure 50ml of distilled water

Mix the water with soil

Stir the mixture properly for 2 min.

Powder the dried soil by mortar

Sieve the sample by 2mm sieve

Weight 5gm of soil

Put the funnel on the conical flask

Very slowly filter the solution

Dip the pH meter in the soil solution to get the pH value



Soil Laboratory and its instruments application

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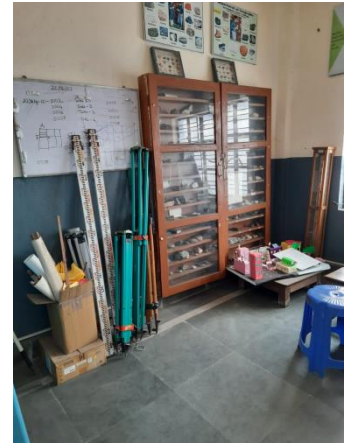
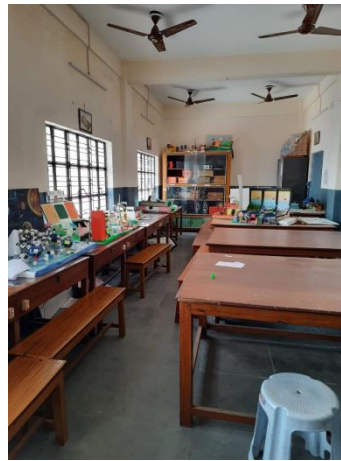
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### CARTOGRAPHIC LAB (SB-32)

Cartography Lab has been a centre of innovation for map design, interactive visualization, and geographic thinking. The Cart Lab is a unique “maker”-a space in which, students work together to discuss complex problems and create compelling visuals of map. As geographers, we view maps and map-based applications as essential tools for addressing complex geographic issues and promoting place-based dialogue. To this end, we bring passion and experience to each new project in order to meet your mapping needs.



### Cartography Lab of Department of Geography

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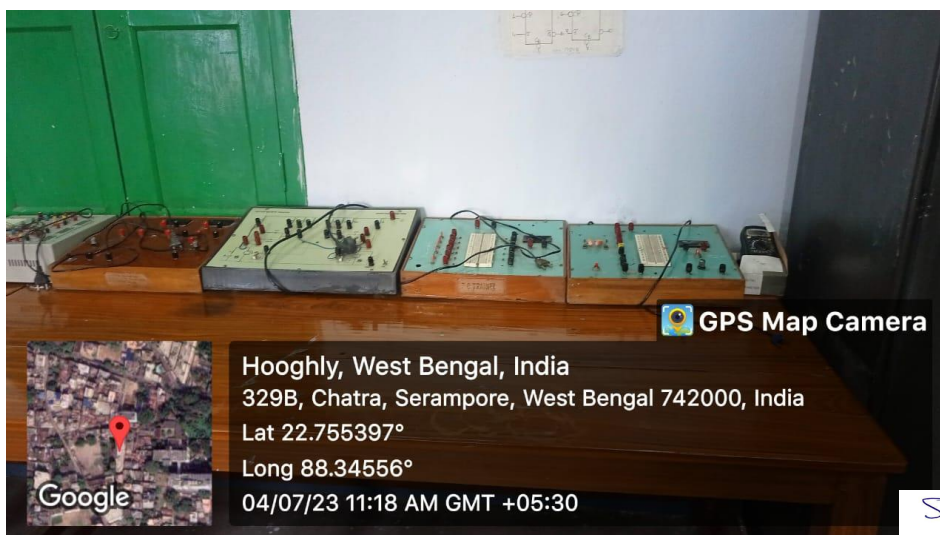
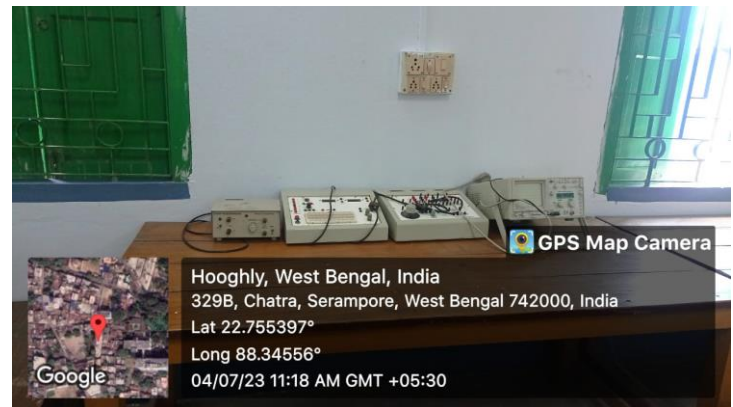
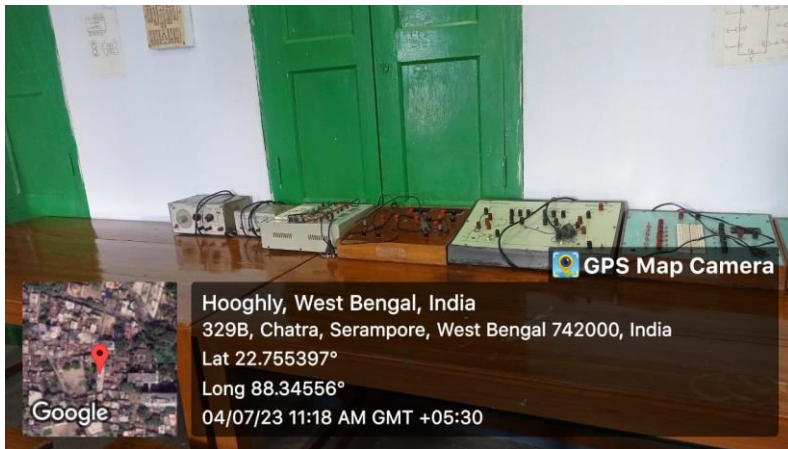
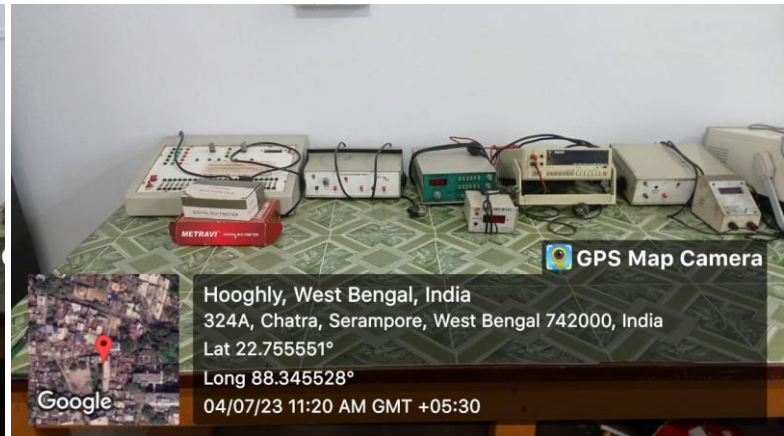
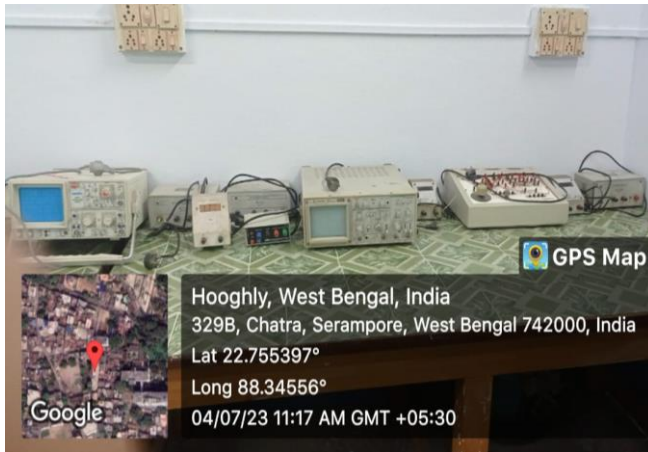
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### Electronic Science Department Laboratory



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## Computer Science Laboratory



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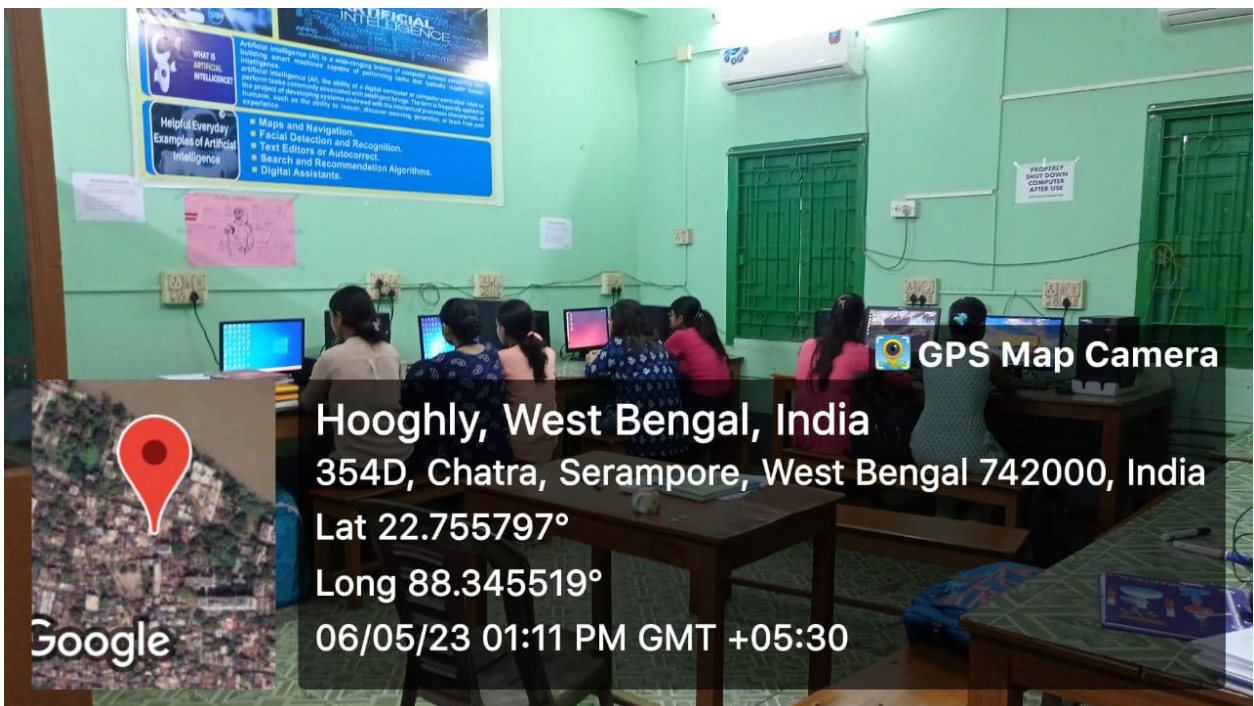
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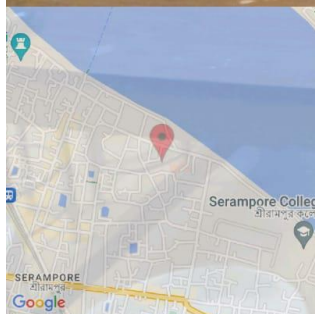
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## Bio-Sciences Laboratory



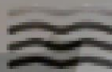
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West Bengal

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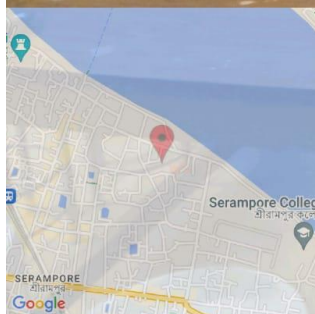
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# Physics Laboratory



**Viscosity Measurement Instrument**

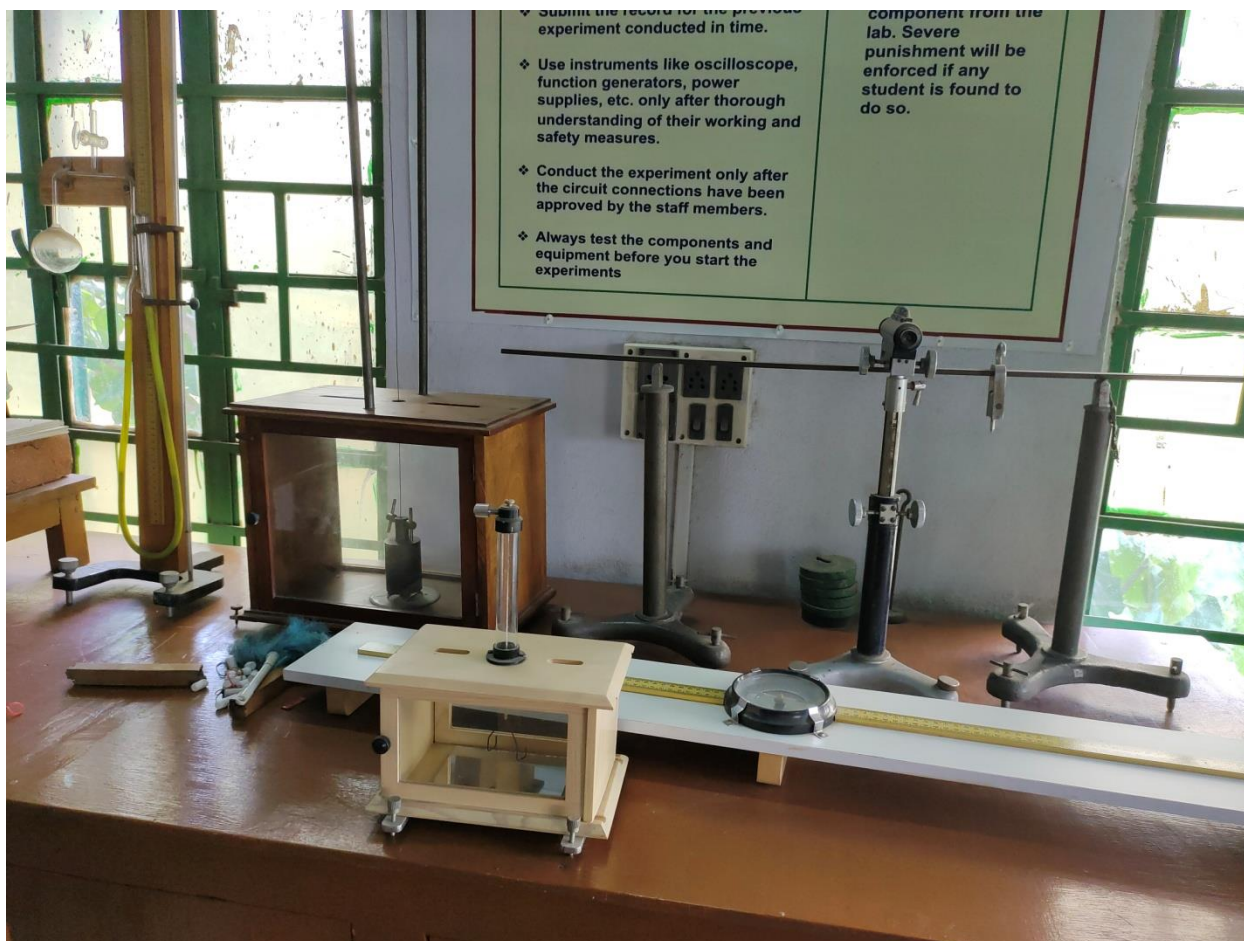
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### Magnetism and general properties of matter lab

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**Electricity Measurement Equipment**

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