

**JERUSALEM COLLEGE OF ENGINEERING  
DEPARTMENT OF BIOMEDICAL ENGINEERING  
REPORT ON ONE-DAY HOSPITAL VISIT TO VHS HOSPITAL**

**DATE: 01.09.2022**

The BioEquip club of the Department of Biomedical Engineering organized a one-day visit to The Voluntary Health Services, Taramani, Chennai. The visit was arranged to the third-year Biomedical Engineering students on 30 August, 2022. Purpose of this visit is to get deep knowledge on the laboratory equipment in the hospital and to provide us a practical perspective in the diagnostic field. Dr. Priya, Scientist and Head, Laboratory Services, VHS Hospital, delivered the introductory lecture about equipment employed in the various labs and their working principle. Sample processing based on barcoded automated sample tracking system was also taught. Students were taken to the serology lab to demonstrate equipment working like flow cytometer, which is a laser-based technique used to detect and analyze the chemical and physical characteristics of cells, automated high throughput DNA/RNA processor, in which robotic liquid handling technology is employed, RTPCR equipment, ELISA washer and ELISA reader. In the afternoon session, the hematology and biochemistry lab were shown and the clinician explained about different types of clinical and immunoassay analyzers, hematology analyzers, which are used to identify and detect the concentration of specific substances in a sample based on antigen antibody interaction principle and various centrifuges. At the end, students were taken to microbiology lab to acquaint them to microbiology media preparation, CO2 and serology incubators, horizontal laminar flow bench and fungal incubators, aerobic bacterial incubators and microscopes.

Ms. C.L. Annapoorani, Assistant Professor, Department of Biomedical Engineering, organized the visit and Ms. S. Purnima, Assistant Professor, accompanied the students during their visit.

Enclosures:

Photographs as proof

  
HOD/BME

  
PRINCIPAL

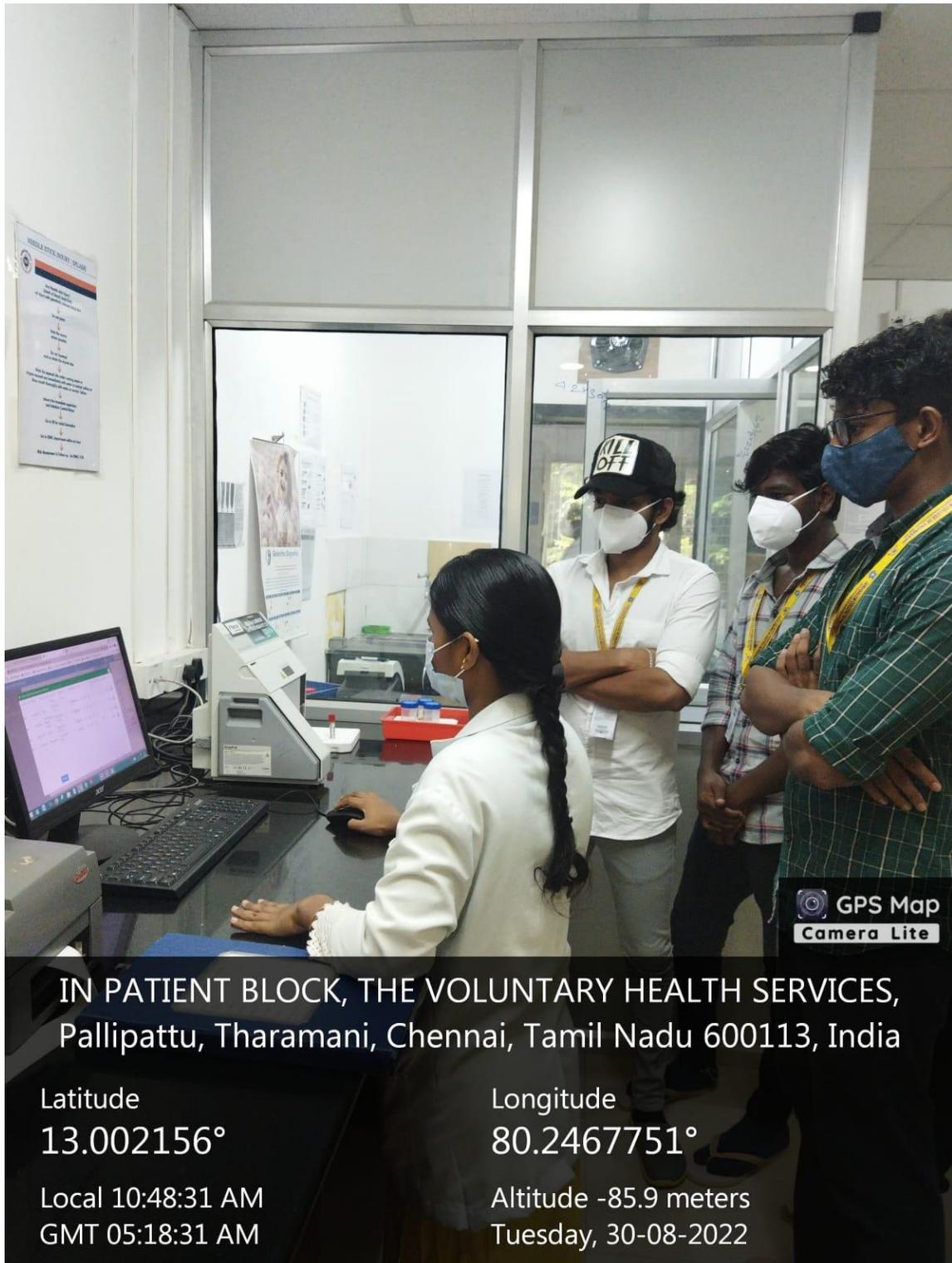
**STUDENTS VISTING THE LABORATORY SERVICES:**



**LABORATORY EQUIPMENT EXPLAINED BY DR. PRIYA:**



## ROBOTIC BASED LABORATORY EQUIPMENTS WERE EXPLAINED



IN PATIENT BLOCK, THE VOLUNTARY HEALTH SERVICES,  
Pallipattu, Tharamani, Chennai, Tamil Nadu 600113, India

Latitude  
13.002156°

Longitude  
80.2467751°

Local 10:48:31 AM  
GMT 05:18:31 AM

Altitude -85.9 meters  
Tuesday, 30-08-2022

# MS. S. PURNIMA ACCOMPANIED STUDENTS

