



Rayat Shikshan Sanstha's  
KARMAVEER BHAURAO PATIL COLLEGE, VASHI NAVI MUMBAI  
(Empowered Autonomous)  
Department of Biotechnology

## **Workshop on Zeta potential and Particle size analysis**

### **Report of activity**

Date:01/07/2024

#### **Details of Activity**

**Duration:** 7Hours

**Attendees Number:**

**Name of Resource person:**Dr. DeepaliGangrade, Mr. Rahul (Lab India Pvt.Ltd)

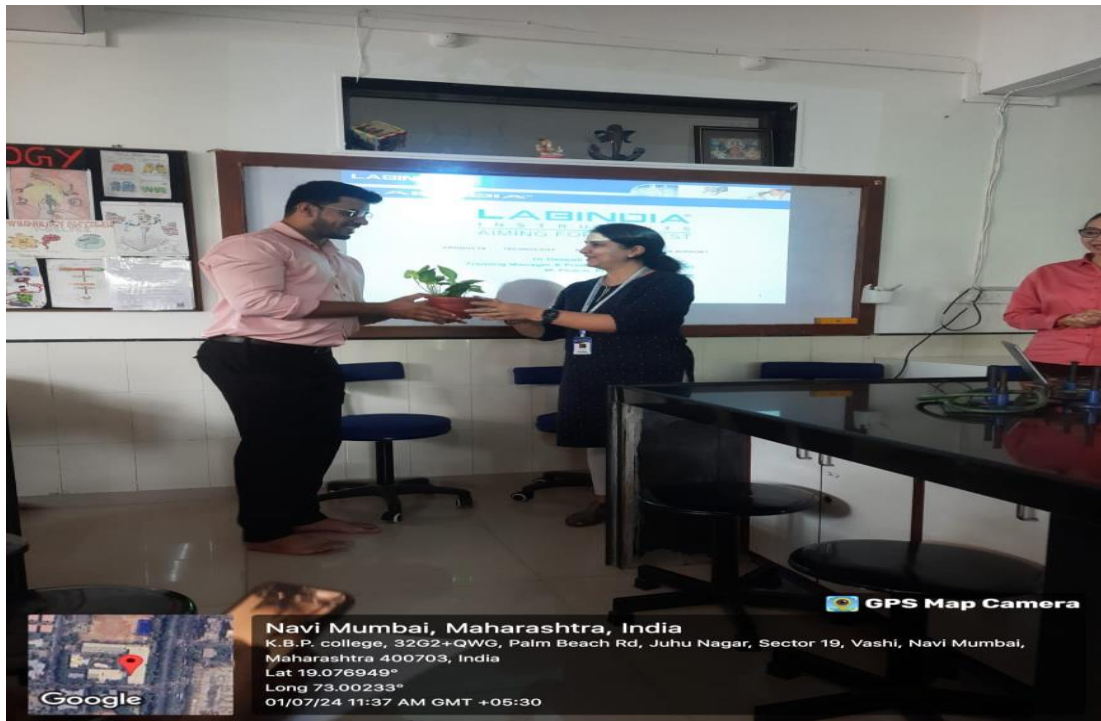
#### **Objectives of Activity:**

The main aim is to learn the instrumentation and significance of zeta potential analysis of the samples.Measuring the zeta potential of particles can give valuable information on the stability of particles in solution and the potential of aggregation of particles.

#### **Description of Activity:**

The workshop was organized by Department of Biotechnology in association with Lab India and Otsuka. Ms. Manminder Riyat, Head of the Department welcomed the resource person, Dr. DeepaliGangrade (Training manager and Product specialist at Lab India Pvt ltd.) started with the explanation of theory behind the zeta potential and its significance. Measuring the zeta potential is a physical property exhibited by any particle in suspension. It is a measure of the magnitude of the electrostatic attraction or repulsion between particles.Sample preparation and instrumentation was explained in detail.Total 18 samples were analyzed by Mr. Rahul (Technical manager) using the instrument, Interpretation of the results was explained. The particle size analysis of all the samples was performed and the obtained data of zeta potential and particle size was handovered to the faculty members whose samples were analyzedand the session was concluded with vote of thanks.

## Photos of Activity





*Riyat*



*Nayak*

**Manminder Riyat**  
**HOD, Department of Biotechnology**

**Prof. Dr. Shubhada Nayak**  
**Principal**