

# SCIENCE POPULARIZATION AWARENESS PROGRAMME

24<sup>th</sup>-28<sup>th</sup> February 2022

Rama Devi Women's University, Bhubaneswar, Odisha

Sponsored by CURIE grant, Dept. of Science & Technology, Govt. of India

## Introduction

As part of the year-long “Azadi ka Amrit Mohatshav (AKAM)” celebrations, Rama Devi Women's University, Bhubaneswar, Odisha organized a 4-day science popularization among school students (Science stream) through short training on scientific techniques and equipments. The program was sponsored by the CURIE grant from DST, Govt. of India and the activities were carried out by the three science depts. (Dept. of Biotechnology, Dept of Life Science and Dept. of Computer Science) who are the beneficiaries of the project. The programme was attended by 30 students from two schools- Indira Gandhi Govt. Girls Higher Secondary School, Bhubaneswar and Rama Devi Girls Higher Secondary School, Bhubaneswar. The details of activities are as follows:

## DAY 1: 24<sup>th</sup> February 2022 (Thursday)

### Venue: Dept. of Life Science

The students were introduced to all the faculty members of the Dept. of Life Sciences. They were allowed to visit the museum specimen laboratory and faculty members explained about each specimen in details. Many life Science based laboratory techniques including blood group determination method, haemoglobin estimation method and microbial culture techniques were demonstrated to the participants. The participants were trained with the working principles of several lab equipments such as pH meter, laminar air flow, spectrophotometer, water bath, bacteriological incubator and compound microscopes.



Interactive session of the participating students with the faculty and scholars of the dept of Life Sciences, RDWU



**Demonstration of bold grouping techniques to the visiting students at the Life Science Lab, RDWU.**

**DAY 2: 25<sup>th</sup> February 2022 (Friday)**

**Venue: Dept. of Biotechnology**

The students were introduced to all the faculty members of the Dept. of Life Sciences. Dr Raj Kumar Joshi, HOD, Biotechnology interacted with the students and explained them about the importance of biotechnological research and encouraged them to pursue a career in Biotechnology. The students were demonstrated with the process of DNA isolation, quality analysis and separation through gel electrophoresis. Participants were demonstrated with the working mechanisms of various laboratory instruments such as autoclave, micropipettes, refrigerated centrifuge, micro balance, horizontal gel electrophoresis system, thermal cycler and UV transilluminator.



**HOD, Biotechnology interacting with the participating school students in the Molecular Biology Laboratory, RDWU.**





**Students being trained with the process of polymerase chain reaction at the Biotechnology Lab, RDWU**



**Demonstration of Gel Electrophoresis to the participating students at the Biotechnology Lab, RDWU**

### **DAY 3: 26<sup>th</sup> February 2022 (Saturday)**

#### **Venue: Dept. of Computer Science**

The students were introduced to all the faculty members of the Dept. of Computer Science. Participants were exposed to fundamental of softwares and hardwares of computers. The students were also demonstrated with the working mechanism of cloud computing facility and artificial intelligence network in the dept.

### **DAY 4: 28<sup>th</sup> February 2022 (Monday)**

On the occasion of the World Science Day, a science quiz was conducted among the participants. Prizes were given to the students who secured 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> position.



**Interaction of students with the faculty and staffs of the Dept. of Computer Science, RDWU. Participating students are being trained with cloud computing and artificial intelligence tools at the Computation lab, RDWU.**