



**SENGAMALA THAYAAR EDUCATIONAL TRUSTWOMEN'S COLLEGE
(AUTONOMOUS)**

(Accredited by NAAC)/ (An ISO 9001:2015 Certified Institution)

SUNDARAKKOTTAI, MANNARGUDI-614016.

PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY

REPORT ON EXTENSION ACTIVITY

Title of the Programme

“Meet the Microbes: Exploring the Invisible World”

Venue

Government Girls Higher Secondary School, Podakkudi

Date and Time

23.01.2026 at 10.30 a.m.

Participants

School students, teachers, and Head Mistress of Government Girls Higher Secondary School, Podakkudi.

Introduction

Microorganisms are an integral part of human life and the environment, playing both beneficial and harmful roles. Despite their importance, awareness about microbes among school students is often limited due to their invisible nature. To bridge this knowledge gap, the PG and Research Department of Microbiology organized an extension activity aimed at educating school students and teachers about the importance of microbes in daily life and their applications in health, food, agriculture, and the environment.

Objectives of the Programme

- To create awareness about microorganisms among school students and teachers
- To explain the importance of microbes in daily life
- To promote scientific curiosity and interest in microbiology
- To highlight the beneficial role of microbes in health, food, and the environment
- To dispel common myths and fears associated with microorganisms

Description of the Activity

The extension activity was conducted at Government Girls Higher Secondary School, Podakkudi. The programme began with a warm welcome address, followed by an introduction to microbiology and the significance of microorganisms.

Faculty members and students explained the **importance of microbes in daily life**, covering topics such as:

- Role of microbes in food production (curd, yogurt, bread, cheese)
- Beneficial microbes in human health (gut microbiota, probiotics)
- Role of microbes in agriculture (biofertilizers, biopesticides)
- Environmental applications (decomposition, sewage treatment, bioremediation)
- Disease-causing microbes and the importance of hygiene and sanitation

Simple language, real-life examples, charts, and interactive discussions were used to make the session engaging and understandable for school students. Students were encouraged to ask questions, and their enthusiastic participation reflected their keen interest in the subject.

Special emphasis was given to **creating awareness among teachers and the Head Mistress** regarding the relevance of microbiology education at the school level and the importance of promoting scientific temper among students.

Outcome of the Programme

- Students gained basic knowledge about microorganisms and their role in everyday life
- Awareness was created about beneficial and harmful microbes
- Students developed interest in microbiology as a subject and career option
- Teachers and Head Mistress appreciated the initiative and its educational value
- The programme strengthened the institution's community outreach and social responsibility

Conclusion

The extension activity was highly successful in achieving its objectives of educating and creating awareness about microorganisms among school students and teachers. The programme helped students understand that microbes are not only disease-causing agents but also beneficial organisms essential for life on Earth. Such outreach programmes play a vital role in promoting scientific awareness and community engagement.

