The Oxford College of Science
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Supported by DST GoI under FIST program, Supported by DBT GoI under DBT-STAR College

DBT-STAR Scheme 2026

REPORT ON ADDITIONAL LAB EXPERIMENTS ENTITLED "ISOLATION OF ALGAE"

DEPARTMENT OF MICROBIOLOGY

TITLE	Isolation of algae
ACTIVITY TYPE	Additional lab experiments
YEAR/SEMESTER	2026/IV Semester
DATE OF EVENT	27.02.2026
VENUE	Microbiology Laboratory
ORGANISED BY	Department of Microbiology
RESOURCE PERSON (with designation and affiliation)	Dr. Rinku Debnath Assistant Professor Department of Microbiology
FACULTY INCHARGE/EVENT COORDINATOR	Dr. Rinku Debnath
TARGET AUDIENCE	IV Sem B.Sc. Students
NUMBER OF BENEFICIARIES	20

The ojectives of the programme: The primary objective of this additional practical session was to provide hands-on training in the "Isolation of algae**"** from soil and water samples. The program aimed to strengthen students' practical skills and enhance their understanding of environmental microbiology and phycology.

Highlights of the programme: Practical training is an essential component of microbiology education. Algae play a significant role in ecosystems, biotechnology, biofuel production, wastewater treatment, and carbon sequestration. Understanding their isolation and identification is crucial for students pursuing higher studies and research. During the session, students collected soil and water samples and performed standard laboratory procedures for the isolation of algae. Techniques such as culture media preparation and sterilization, serial dilution, inoculation on the culture media, incubation under controlled light conditions, and incubation were carried out. Resource person guided students through each step of the procedure.

The outcome of the programme: The additional laboratory experiment session was successfully conducted with enthusiastic participation from the students. The initiative under the DBT Star College Scheme significantly contributed to experiential learning and skill enhancement. These events ensure that students received extended laboratory exposure beyond regular curriculum hours, thereby bridging the gap between theoretical knowledge and practical application. Such programs continue to strengthen the academic excellence and research aptitude of the students of the Department of Microbiology.

Media preparation

Technical talk delivered

Lab demonstration

Head of the Department **DBT-STAR Coordinator** **Vice Principal** **Principal**