

DEPARTMENT OF MICROBIOLOGY

ADDITIONAL EXPERIMENTS CONDUCTED FOR III YEAR BSc

under DBT Star College Scheme

Academic year 2022-23

Objectives of the Additional Practical's Introduced:

- To enhance the quality of the learning and teaching process to stimulate original thinking through 'hands-on' exposure to experimental work and participation in summer schools
- To provide access and exposure to students to research laboratories and industries in the country
- To help in devising standard curricula and Standard Operating Procedures (SOP's) for practicals.

The Star College Scheme was initiated by DBT in 2008 to support colleges and universities offering undergraduate education to improve science teaching across the country. The program is organized for improving critical thinking and encouraging 'hands on' experimental science at undergraduate level in basic science subjects. This program provides support for developing infrastructure for academics and laboratory activities. This support is in turn expected to invigorate teaching and provide unique exposure of students to experimental science. The Star College Scheme acts as a gateway and provides exposure to students. The scheme also acts as a catalyst in igniting young minds (faculty and students) to engage in networking, exposure visits to research institutes and industries and apply for research grants in order to prepare them for future challenges after the successful completion of their undergraduate courses. The total strength of BSc III year students was 207. Majority of the students were encouraged and engaged during these additional practical sessions.

Following experiments were conducted-

1. Preparation of Tomato Ketchup
2. Detection of food pathogens
3. Isolation, growth and mass production of Rhizobium.