RAMAIAH College of Arts, Science & Commerce

Government of India
Department of Science & Technology
Ministry of Science & Technology

DEPARTMENT OF BIOTECHNOLOGY & GENETICS

Under

DBT Star College Scheme

Report on

Additional Experiment taught to second year BSc III sem students

Faculty incharge: Dr. Radha Dayanidhi

Objectives

• To motivate the students with experiential learning through 'hands–on' exposure to experimental work and participation in summer schools

• To enhance thee knowledge of students apart from Curriculum syllabus

• To provide access and exposure to students to research laboratories and industries in the country

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 II year students was 102. All the students were encouraged and engaged to take up the additional practical sessions.

The experiment known as, 'Seliwanoff's test' was conducted during BSc III semester

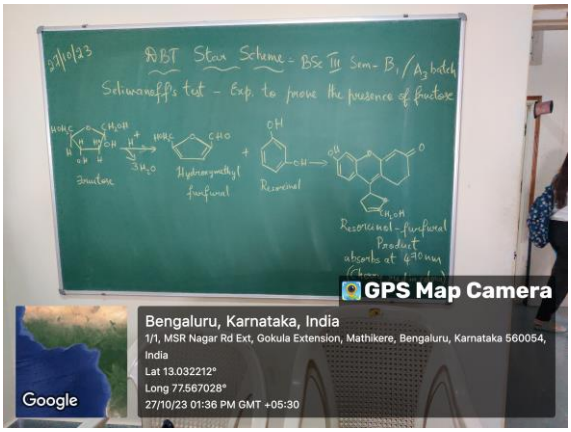
These practical were conducted during the day-to-day practical sessions during the months of Oct and Nov, 2023.

The experiment conducted was one of the important practical concept which aid the students to distinguish between aldoses and ketoses. As the curriculum includes the estimation of sugar only, the additional experiment makes the students to understand the differences between the sugars containing aldehyde and ketone functional group.

Outcome of the Program:

- Prepare the students to learn the additional experiment that increase their knowledge for preparation of reagents
- Introduction of "hands on training" to enhance conceptual clarity for topics taught previously by theoretical approach.
- Individual attention is given so that students can learn better

Glimpses of additional practical conducted



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