



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 2025

REPORT

DEPARTMENT: BIOTECHNOLOGY

TITLE	Paper Chromatography
ACTIVITY TYPE	Hands on training (Workshop)
YEAR/SEMESTER	UG IV Semester- 2026
DATE OF EVENT	23.02.2026/24.02.2026/27.02.2026
VENUE	Room no 321, UG Laboratory room no 328
ORGANISED BY	Department of Biotechnology
RESOURCE PERSON (with designation and affiliation)	Dr. Susmita Srivastava Assistant Professor Department of Biotechnology The Oxford College of Science
FACULTY IN-CHARGE/EVENT COORDINATOR	Dr. Susmita Srivastava Assistant Professor
TARGET AUDIENCE	B.Sc IVth Semester students
NUMBER OF BENEFICIARIES	52

1.The objectives of the Programme: The workshop was designed to bridge the gap between theoretical chromatography technique and laboratory practises. **Technical Proficiency:** To train students in the precise technique of **micro-spotting** and the preparation of the chromatography chamber **Principle Application:** To demonstrate the partition of solutes between the **Stationary Phase** (cellulose water complex) and the **Mobile Phase** (organic solvent). **Analytical Skill Development:** To enable students to identify amino acids, plant pigments, or sugars based on their differential migration rates and the importance of choosing the correct solvent system (e.g., Butanol:Acetic Acid:Water) for specific biomolecules.

2.Highlights of the Programme: This hands-on session provided students with "bench-top" experience. Students observed molecules are "partitioned" based on their affinity for the paper versus the solvent.

Troubleshooting Session: A dedicated segment on how to prevent common errors.

3.The outcome of the programme: Technical Proficiency & Skill Development

The primary outcome is gain the knowledge of the chromatographic technique. Students have demonstrated the ability to prepare the stationary phase, solvent system Optimization:

Geotagged photos with titles



Introduction to Chromatography

Demonstration of Chromatography



Preparation of reagents and solvents

Head of the Department

DBT-STAR Coordinator

Vice Principal

Principal