

**Criterion IV: Infrastructure and Learning Resources**

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.

**Biotechnology Lab**



The mandate of the Biotechnology laboratory of Sacred Heart College is to conduct high quality research in specific frontier areas of Biotechnology and Chemistry. Significant emphasis is put in exploration and value addition of regional bio resources while ensuring environmental sustainability. The main vision of biotechnology lab is to discover new

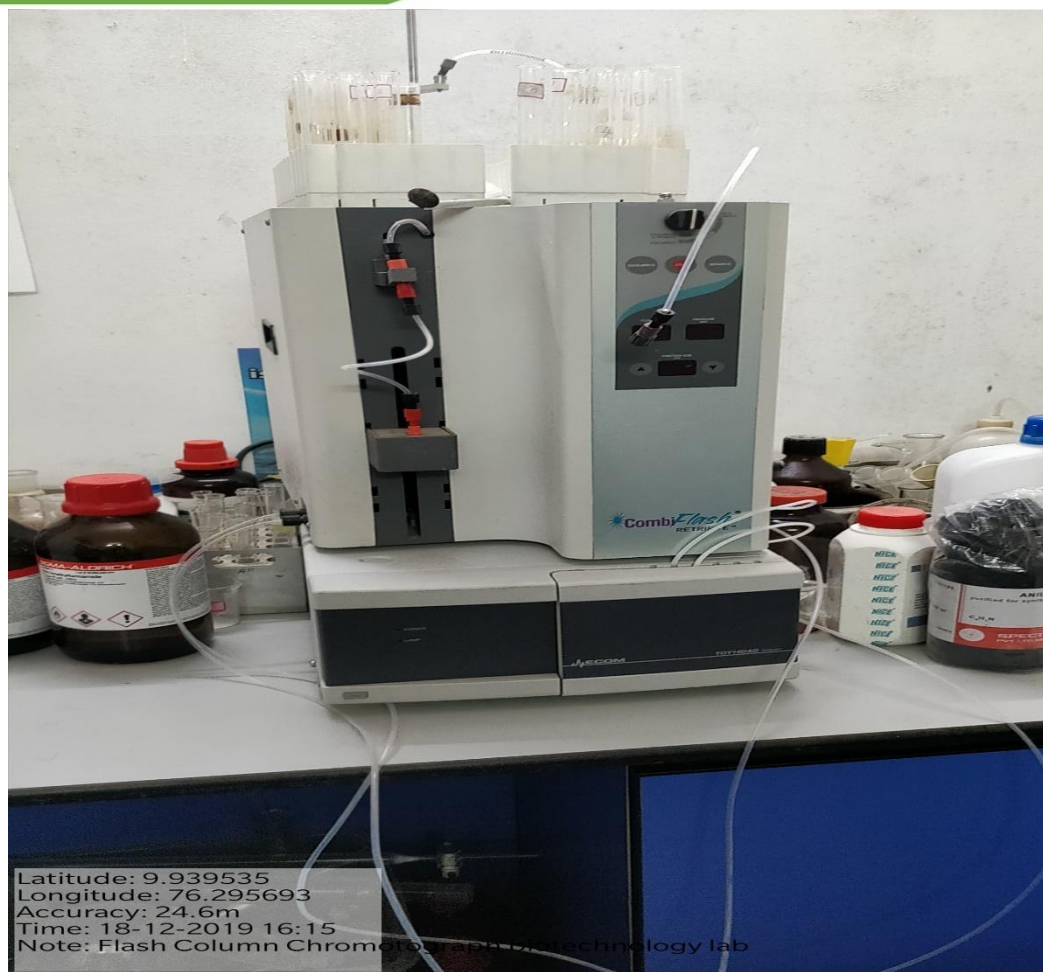
**Criterion IV: Infrastructure and Learning Resources**

knowledge about functional materials and bioactive molecules, and to develop such materials/molecules for industrial applications using innovative, cost competitive and environmentally acceptable processing technologies



**Buchi Rotavapor R2 10**

A rotary evaporator is a device used in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation. With a Rotavapor, single step distillations are performed quickly and in a product friendly manner. The basis of this procedure is the evaporation and condensation of solvents using a rotating evaporating flask under vacuum. Distilling products under vacuum increases the performance and helps to protect the products.



### Flash Column Chromatography

Flash chromatography systems quickly isolate compounds through a preparative scale method with moderate resolution. These affordable automated machines effectively pump solvent through optimized pre-packed columns at a high-flow rate. The principal behind this separation technology is simple – compounds in solution will, based on their particular chemistry, separate from each other due to their polarity differences, given the right conditions and technique.



### Chemical Biotechnology lab

A chemical by definition is any substance consisting of matter; this includes solids, liquids, and gas. Chemicals can either be of a pure substance or a mixture of substances. These are the chemicals in biotechnology lab for the synthesis of molecules and the encapsulation studies.



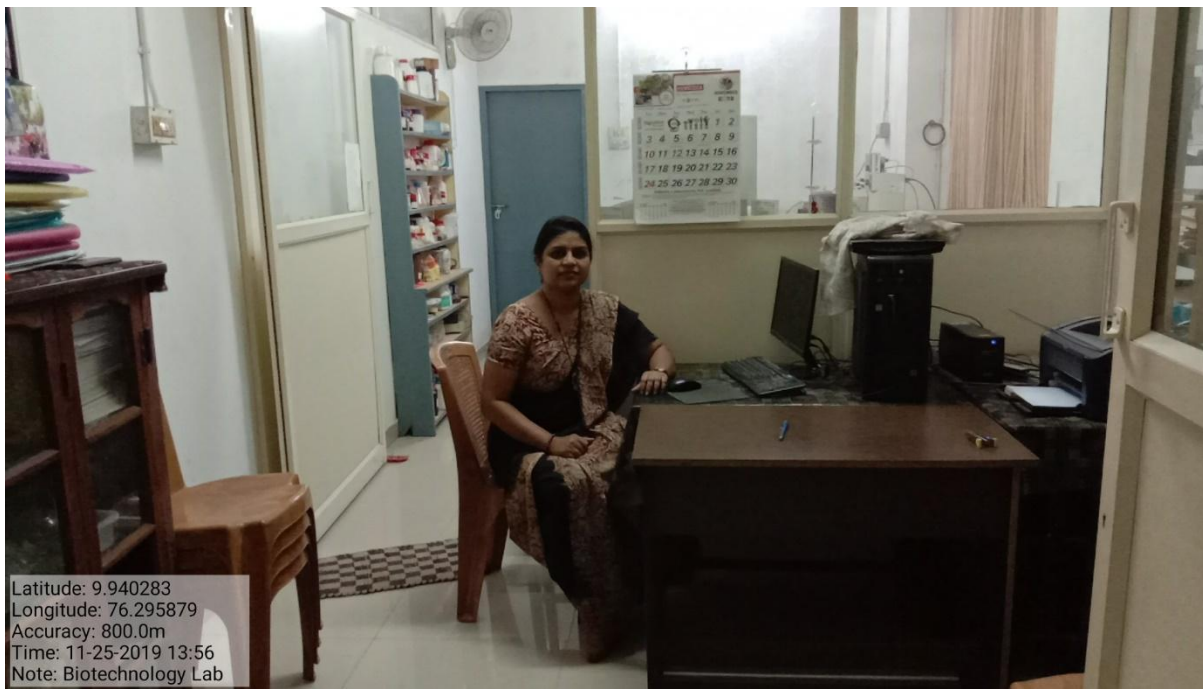
**Biotechnology Lab Classes**



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### Biotechnology Lab Experiments

A laboratory is a facility that provides controlled conditions in which scientific or technological research, experiments, and measurement may be performed. Biotechnology laboratory of Sacred Heart College mainly focus on cancer related researches and give experience and project training for MSc students.



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### Biotechnology Lab Office