

## Laboratories at the Department

The Department offers its student well configured computer laboratories with high speed internet facility.

Laboratory modules with online databases and softwares (both on and off- line) are designed to provide student a strong background in the fields of **structural biology, computational biology, proteomics and protein engineering, genomics and transcriptomics, rational drug design and molecular structure prediction and visualization.**

### BI 301 Laboratory (Bioinformatics & Basic Programming)

- C programming
- Java Programming
- Perl programming
- DSA
- Database Designing
- HTML
- Phylogenetic Analysis
- Biological Sequence Analysis
- Primer Designing



### BI302 Laboratory (Computer Aided Drug Designing & Molecular Modelling)

- Protein modeling
- *In silico* vaccine designing
- Molecular Docking, QSAR
- Molecular Dynamics Simulation
- Microarray Data analysis
- Pathways Modeling and Simulation
- Database Designing



- **Project Work**



**Class Rooms**



**Projector Screen**



**Seminar Hall**



**Workstation useful for Molecular Docking, QSAR, Pathways Modeling and Simulation High Performance Cluster with One master node and three slave useful for Molecular Dynamics**



### **Internet Facilities**

**24 Hours High bandwidth Internet Facilities and fully A.C. Laboratory**