

**Industrial Biotechnology Training**  
**Bioinformatics (Standard)**  
**Session 2021-2022**

<b>Module Content</b>
General Introduction to bioinformatics and Databases
To retrieve FASTA sequence from Various database
To perform BLAST of a protein sequence
Phylogenetic study
To perform molecular modelling using SwissModel
To validate the model structure of HIV-1 protease using Swiss model and PROCHECK
Model validation using various parameters
To find the binding pockets of the protein using CASTp
To perform change the format of molecule from mol to PDB
To predict ADMET properties using chemicalize online tool
Primer designing
Concluding lecture and discussion
Presentations, Viva-voice and report submission