**Course: Advanced Bioinformatics**

**Module title: What we will study**

**Module no. : 5**

In the basic course of bioinformatics, you have already learnt many things such as Molecular biology, Databases Introduction, Computing concepts related to bioinformatics, Pairwise Sequence Alignment, Tools for similarity search and sequence alignment, Multiple Sequence Alignment and Protein Structure Modeling and Simulation.

In this course we will look at advanced areas of the bioinformatics fields such as molecular evolution, i.e. Phylogeny and Phylogenic Algorithms, Hidden Markov Models and their usability in bioinformatics

Drug Discovery: Technology and Strategies, classification and understanding of biological documents, medical imaging primitives, programming languages for bioinformatics such java, mat lab and python.