

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Bioinformatics)
Semester: II
Syllabus with effect from: December - 2010

Paper Code: PS02CMBI01	Total Credit: 5
Title Of Paper: Basic & Advanced Sequence Analysis	

Unit	Description in Detail	Weightage (%)
	Synthesis of genomic and cDNA libraries and their screening; Automated methods for DNA and protein sequencing; Basic tools for nucleic acid and protein sequence analysis; Assembly of continuous nucleotide sequences; Sequence homology prediction in DNA and proteins. Building phylogenetic trees using sequence data; Mathematical models and computational tools for sequence analysis; Multiple sequence analysis and conserved sequence pattern recognition; Expressed Sequence Tags (ESTs).	

