II Year B.Tech. Bioinformatics II - Semester	L	T	P	To	C
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(BI 206) BIOLOGICAL DATABASE LABORATORY

Course Description and Objectives:

This lab course deals with the utility of biological Databases and its applications. This course provides adequate skills and knowledge in utilizing the information deposited in public biological databases.

Course Outcomes:

1. Students will be able to retrieve sequence data from GenBank
2. They will be able to perform various operations in NCBI
3. The will be able to utilize various tools available in SWISS-PROT and PIR
4. They will be able to use tools embedded in SCOP and CATH
5. They will gain expertise in Pfam, PROSITE and BLOCKS

LIST OF EXPERIMENTS :

1. GenBank
2. NCBI (BLAST)
3. EMBL
4. DDBJ
5. SWISS-PROT
6. PIR
7. TrEMBL
8. PDB

9. SCOP
10. CATH
11. Pfam
12. PROSITE and BLOCKS
13. BioGrid (India)
14. UCSC

TEXT BOOK :

1. Bioinformatics: Sequence and Genome Analysis, Second Edition, David Mount, 2004.