LESSON PLAN

Class: B. Sc. Biotechnology   **Semester: 4th sem**
Paper IX: Bioinformatics   **Session: 2023-24**

S. No	Week	Topic
1.	01/01/24-06/01/24	History, scope and importance of bioinformatics.
2.	08/01/24-13/01/24	Introduction to Genomics – information flow in Biology, DNA sequence data
3.	15/01/24-20/01/24	experimental approach to genome sequence data, genome information resources
4.	22/01/24-27/01/24	Functional Proteomics – protein sequence and structural data
5.	29/01/24-03/02/24	protein information resources and secondary data bases.
6.	05/02/24-10/02/24	Computational Genomics - Internet basics, biological data analysis and application
7.	12/02/24-17/02/24	Sequence data bases, NCBI model, File format.
8.	19/02/24-24/02/24	Sequence alignment and data base search – protein primary sequence analysis,
9.	26/02/24-02/03/24	Algorithm BLAST, multiple sequence alignment.
10.	04/03/24-09/03/24	DATA base searching using BLAST and FASTA.
11.	11/03/24-16/03/24	Predictive methods using DNA and protein sequences
12.	18/03/24-22/03/24	Structural data bases
13.	23/03/24-31/03/24	**Holi break**
14.	01/04/24-06/04/24	Small molecules data bases, protein information resources,
15.	08/04/24-13/04/24	Protein data bank.
16.	15/04/24-20/04/24	Class test and discussion
17.	22/04/24-30/04/24	REVISION AND QUERIES

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