

SRM UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF BIOINFORMATICS

BI0314- MOLECULAR SIMULATION OF BIOMOLECULES LABORATORY

Semester: VI
Sub Code: BI0314

Course: Molecular Simulation Of Biomolecules Laboratory
Staff Handling: Ms.P.Rathi Suganya , Ms.S. Lavanya,
Mr. P. P. Karthikeyan

Hrs/Week: 3

Lecture Hour	Topic	Learning outcome
1-3	Analysis of 2D and 3D structures of proteins	• Modelling unknown proteins
4-6	Finding the active sites in a receptor	
7-9	Homology Modeling using SPDBV	
10-12	Model structure refinement using SPDBV.	
13-15	Model validation using What Check and Pro Check	
16-18	Docking using DOCK or AUTODOCK or HEX.	
19-21	Docking using DOCK or AUTODOCK or HEX.	• docking
22-24	Target – Ligand from PDB Sum.	
25-27	Model Exam	
28-30	University exam	

REFERENCE BOOKS

1. Lab Manual

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