BT 603 Molecular Biophysics (3 0 0 6)

Pre-requisites: Nil

Review of DNA, protein and membrane structure; techniques for macromolecular structure and dynamics: NMR, CD, Fluorescence, Light Microscopy and SEM; ligand macromolecule interactions; membrane transport; motor proteins; protein folding and aggregation; molecular crowding.

References:

1. K E van Holde, W C Johnson and P S Ho., *Principles of Physical Biochemistry,* Prentice Hall, 1998.

2. M Daune, W J Duffin and D Blow, *Molecular Biophysics-Structure in motion,* Oxford Univ. Press, 1999.

3. C R Cantor and P R Schimmel, *Biophysical Chemistry Part I, II and III*, W H Freeman and Co, 1980.

4. Selected articles from Annual Reviews of Biophysics and Biomolecular Structure and other journals.