

**BHAVAN'S VIVEKANANDA COLLEGE
OF SCIENCE, HUMANITIES & COMMERCE**
Sainikpuri, Secunderabad – 500094
Reaccredited with 'A' Grade by NAAC
Autonomous College, Affiliated to O.U



Department of Biochemistry & Nutrition
is organizing a

Value Added Course
on

**Bioinformatics Tools for Genomics
& Proteomics study**



Date: 20-01-2025 to 05-02-2025
Time: 6:30 pm - 8:30 pm
Online Mode

Course Coordinator

Dr. S. Padma

Head

Dept of Biochemistry & Nutrition



Resource Persons

Dr. S. Padma, Dr. S. Vanitha, Dr. Manju Devi S, Dr. Kamala Golla
Dept of Biochemistry & Nutrition

Registration fees: Rs 500/-

[Register Here](#)



Course Content

- Sequence retrieval from Nucleotide and Protein databases.
- Sequence similarity by BLAST.
- Multiple sequence alignment by ClustalW.
- Phylogenetic analysis of protein and nucleotide sequences.
- Gene Prediction methods - Genscan.
- *in silico* PCR and Primer Designing.
- RNA Structure Prediction tool.
- miRNA Prediction, designing and target prediction tools.
- Protein structure Prediction tools and databases.
- Homology modelling of Proteins.
- Tools for mutation analysis of energy minimization of protein structures.
- Cytoscape - A Tool to visualize Protein- Protein Interaction.
- Receptor- Ligand Interaction.
- Drawing structures using ACD Chems sketch and perform Autodock.
- Bioinformatics using R- programming and Biopython.



Requirements

Laptop / Computer system

Internet

