

# Department of Microbiology

organizes



# VALUE ADDED PROGRAM BIOINFORMATICS

This activity aims to equip students with practical and theoretical knowledge that can enhance their expertise in the rapidly evolving field of bioinformatics

**Resource Person: Dr. Vemula Vani**

**Date: 6th to 10th February 2025  
9:30 am onwards**

**Coordinator**

 **Mrs. Soumya Satyanand Shanbhag**  
9740819951

**Principal: Dr. Pushpa H**

## Objectives:

- Understand the Fundamentals of Bioinformatics
- Biological Data Analysis
- Develop computational skills
- Knowledge of database

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**Date: 6th-10th February 2025**  
**9:30 am onwards**  
**Program Schedule**

Sl No	Course Content	Day
1	Introduction to the Workshop on Bioinformatics	6 <sup>th</sup> Feb 25
2	Introduction and Applications of Bioinformatics	6 <sup>th</sup> Feb 25
3	Introduction to Bioinformatics tools	6 <sup>th</sup> Feb 25
<b>Module 2- Advanced Concepts in Bioinformatics</b>		
4	Nucleotide and Protein sequence Databases and Retrieval of sequences	10 <sup>th</sup> Feb 25
5	Sequence alignment methods	10 <sup>th</sup> Feb 25
6	Sequence similarity search	10 <sup>th</sup> Feb 25
7	PDB and retrieval of protein structures	10 <sup>th</sup> Feb 25
8	Rasmol analysis of protein 3D structures	10 <sup>th</sup> Feb 25
<b>Module 3- Assessment &amp; Feedback</b>		
9	Discussion and Assessment	11 <sup>th</sup> Feb 25
10	Feedback	11 <sup>th</sup> Feb 25

**Registration: Free**

**Venue: Classroom- 4th floor  
Computer Lab**