

# DEPARTMENT OF MICROBIOLOGY

DR V.S KRISHNA DEGREE AND PG COLLEGE GOVT

Two days workshop on

**BIOINFORMATICS: RESOURCES, TOOLS AND ITS APPLICATIONS.**

For degree and PG students

(On 20<sup>th</sup> July 2022)

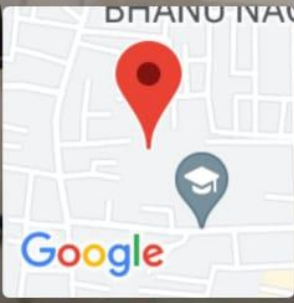
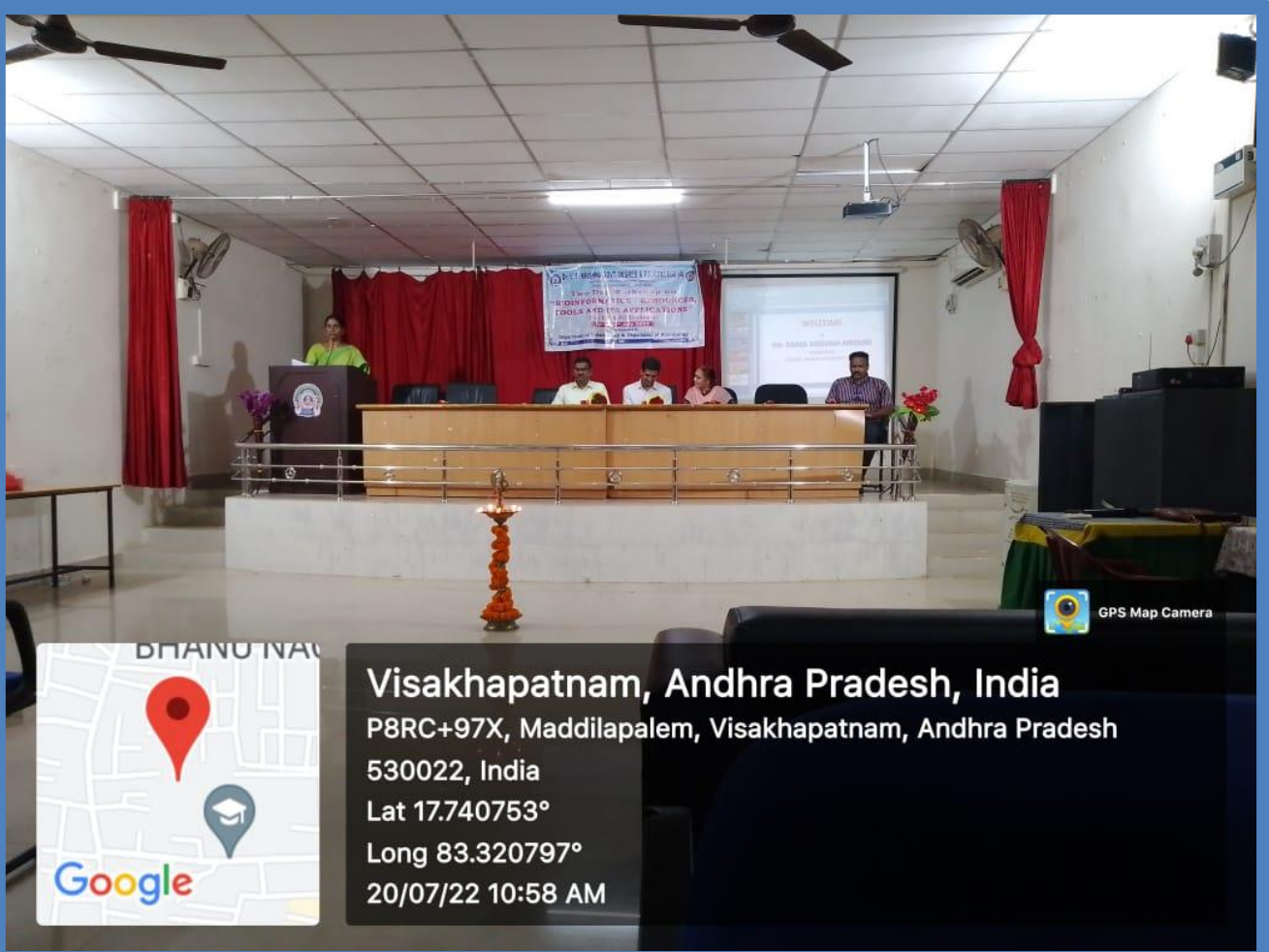
Department of Biotechnology and department of Microbiology

The first and second year students of Chaitanya degree and PG college has attended to the two days work shop on **BIOINFORMATICS: RESOURCES, TOOLS AND ITS APPLICATIONS-20<sup>th</sup> July 2022.**

Bioinformatics is an interdisciplinary field mainly involving molecular biology and genetics, computer science, mathematics, and statistics. Data intensive, large-scale biological problems are addressed from a computational point of view.

These workshops cover topics like genomics data analysis (RNA-Sequence or genomic sequence), genome annotation, and gene function prediction, with sessions on:

- transcript quantification
- statistics of RNA-sequence data analysis
- de novo transcriptome assembly
- variant calling
- de novo genome assembly
- genome annotation
- gene ontology and function enrichment analysis



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## **CONCLUSION:**

One of the benefits of using bioinformatics tools is that you can use them to analyze large data sets.

Bioinformatics can help scientists find patterns or relationships that may not have been able to see otherwise.

Additionally, this can help researchers to design experiments and find new ways to study molecules and their interactions as well as for drug discovery for certain diseases.

This can also lead to new discoveries about the molecules that scientists are studying.

Finally using bioinformatics tools can make it easier for scientists to make statistical analyses of biological databases.