GAYATRI VIDYA PARISHAD COLLEGE
FOR DEGREE AND PG COURSES (AUTONOMOUS)
Visakhapatnam, Andhra Pradesh

(Affiliated to Andhra University, Accredited by NAAC with B++ Grade)

GAYATRI VIDYA PARISHAD COLLEGE FOR DEGREE AND PG COURSES(A)
REACCREDITED BY NAAC , AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM

A TWO DAY WORKSHOP ON BIOINFORMATICS

DAY 1 (1-7-2022)
Inaugural session : 11.30am
Technical session I : 3 to 5pm

DAY 2 (2-7-2022)
Technical session II : 11am to 1pm
Technical session III : 2 to 4pm

Resource person
RAMAKRISHNA MEDURI

Organized by Department of Microbiology, Biotechnology and Biochemistry
Venue : Seminar Hall, M.V.P. Campus

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BRIEF REPORT

Name of the Program	:	Workshop on recent trends in bioinformatics
Date of the program	:	1st - 2nd July 2022
Venue details	:	Seminar Hall, MVP Campus, GVPCDPGC(A)
Name of the Resource person	:	Dr. Ramakrishna, Senior Manager, MS Electronics PVT Ltd
Objectives	:	To provide awareness on the field of the electronic device circuits for medical applications.
Outcomes	:	Awareness on the usage EDC devices is obtained
No of students participated	:	52

Report

Bioinformatics is an interdisciplinary field that develops and improves on methods for storing, retrieving, organizing and analyzing biological data. A major activity in bioinformatics is to develop software tools to generate useful biological knowledge. Bioinformatics has become an important part of many areas of biology. In experimental molecular biology, bioinformatics techniques such as image and signal processing allow extraction of useful results from large amounts of raw data. In the field of genetics and genomics, it aids in sequencing and annotating genomes and their observed mutations. It plays a role in the textual mining of biological literature and the development of biological and gene ontologies to organize and query biological data. It plays a role in the analysis of gene and protein expression and regulation.

Bioinformatics tools aid in the comparison of genetic and genomic data and more generally in the understanding of evolutionary aspects of molecular biology. At a more integrative level, it helps analyze and catalogue the biological pathways and networks that are an important part of systems biology.

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In structural biology, it aids in the simulation and modeling of DNA, RNA, and protein structures as well as molecular interactions. Researchers affiliated with our program conduct research in systems biology, genomics, and proteomics.

Objectives

1. Introduction to Biological Databases; Types and their significance. i.e. NCBI, EMBL, DDBJ, PDB
2. Retrieve, analyze and visualize DNA / RNA / Protein sequences from NCBI & PDB
3. Sequence Alignment - Introduction; Types – Pairwise alignment & Multiple sequence alignment: ClustalW, COBOL tools
4. Sequence analysis using BLAST: Different types of BLAST tools/ techniques, E value etc.,
5. Phylogenetics and evolutionary Tree construction - Analysis and Visualization

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01-07-2022, Smt. Illahi sheik introducing the Technical team to the students

01-07-2022, Students participated in the program along with the Technical person

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02-07-2022, Group photo of the students along with Dr.Anand gaaru and resource person

01-07-2022, Training being done at the Computer lab, MVP Campus, GVPCDPGC(A)

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List of the students attended to the workshop held between 01-07-2022 & 02-07-2022

S.No	Reg.No	Name of the Student
1	2021-2211001	PENDYALA SAI SRINIDHI
2	2021-2211002	KANDREGULA YOSHITHA
3	2021-2211003	SEKHARMANTRI SURYA DEEPAK
4	2021-2211004	SEEMAKURTI SAI JYOTHIKA
5	2021-2211005	NAMBARI VISHNU PRIYA
6	2021-2211006	NAVEENA GUDLA
7	2021-2211007	SANABOYINA SATYA SAI DARAHASINI
8	2021-2211008	GUJJI SYAMALA
9	2021-2211009	NAKKA SARATH
10	2021-2211010	MUVVALA SHALINI YADAV
11	2021-2211011	MAMIDI SAI RASHMITHA
12	2021-2211012	MOKARA NARA SURYA PHANI DEEPIKA
13	2021-2211013	ADIGARLA JAYANTH
14	2021-2211014	JEEBA VENKATESH
15	2021-2211015	GARIKINA HEMA
16	2021-2211016	DATLA UMA JHANSI RANI
17	2021-2211017	ANINGI DEEKSHITHA
18	2021-2211018	KANITHI AMRUTHA
19	2021-2211019 SRI	VADREVU SAI SRAVANI SHAKUNTALA
20	2021-2211020	GUNTAMUKKALA GAYATHRI
21	2021-2211021	ANDRA MEGANA
22	2021-2211022	MOHIDEEN SUBYTHA ASRIN
23	2021-2211023	TUNGANA HARSHA
24	2021-2211024	KAKARA VENKATA PRAGHNA
25	2021-2211025	POTNURU DEVI
26	2021-2211026	EMANDHI SIRISHA
27	2021-2211027	SARATH LOKONDA
28	2021-2211028	ADDAGARLA SOUJANYA
29	2021-2211030	KARRI KATYAYANI
30	2021-2211031	PAILA HAVYA VAHINI
31	2021-2211032	KOTTAKOTA JAGAN
32	2021-2211033	RAMBA DHANA LAKSHMI
33	2021-2211035	SUJITHA MIDHILA

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34	2021-2211036	BOJANKI MANASA
35	2021-2211037	NANIPALLI UMA DEVI
36	2021-2211038	SAMPATHI RAO SWAPNA
37	2021-2211039	YADLAPALLI PRIYANKA
38	2021-2211040	PESALA SRAVANI
39	2021-2211041	MAHANTHI USHA RANI
40	2021-2211042	POTNURU NEELIMA
41	2021-2211043	GOMPA SRAVANI
42	2021-2211045	AMBATI MADHURI
43	2021-2211046	ENUGULA SAGAR
44	2021-2211047	MUVVALA CHARISHMA
45	2021-2211048	SADI PRASANNA
46	2021-2211049	AMBATI KUSUMA
47	2021-2211050	MOLLI VEERA VENKATA SAI NANDINI
48	2021-2211051	DANGETI GAUHAR
49	2021-2211052	JOGA SRIKARI
50	2021-2211053	DANDA ESWAR HARSHA VARDHAN
51	2021-2211054	PILLA OZESWINI VENKATA LAKSHMI
52	2021-2211055	HANEESH VARDHAN VADAMODULA

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