

BIOINFORMATICS AND BIostatISTICS LAB

Associated Faculty: Dr. Meenakshi Sharma

The Botany Department at Daulat Ram College boasts a state-of-the-art Bioinformatics and Biostatistics Lab facility, equipped with cutting-edge technologies to support advanced research and analysis. The Bioinformatics and Biostatistics Lab facility at Daulat Ram College's offers an ideal environment for students and faculty members. This specialized laboratory serves as a hub for students to explore the intricate connections between biology, computational science, and statistical analysis under the guidance of Dr. Meenakshi Sharma. The Bioinformatics section of the lab is equipped with high-performance computing systems, enabling researchers to analyze large-scale biological data sets such as genomics, proteomics, metagenomics, sequence analysis, protein structure prediction, molecular docking, gene expression patterns, metabolic pathways, and protein-protein interactions and phylogenetic analysis.

Complementing the Bioinformatics section, the Biostatistics section focuses on the development and application of statistical methods in biological research. It provides access to advanced statistical software for data analysis, experimental design and hypothesis testing,. The facility supports projects ranging from microbiology, ecological and agricultural research. To foster skill development, the Botany Department organizes various events. These programs include workshops, and hands-on training sessions and Short term projects on bioinformatics and biostatistics tools, data analysis techniques. Such initiatives enhance the research capabilities of students, enabling them to pursue diverse career paths in academia, pharmaceuticals, healthcare, and biotechnology.



DAULAT RAM COLLEGE
University of Delhi



DEPARTMENT OF BOTANY
Under IQAC

organises

In-House Skill Development Programme
on

**BASICS OF BIOINFORMATICS:
Theory and Practice**

11th -17th July, 2019
Time: 10:30 am-3:30 pm

- ❖ For Registration mail to - drcbotany2019@gmail.com
- ❖ Refreshment and other incidental charges -INR 500/-
- ❖ Number of Seats-25-30
- ❖ For queries contact at -9971940098, 9868535813

Dr Savita Roy
Principal

Dr. Nidhi Gautam & Dr. Meenakshi Sharma
Course Coordinators



DAULAT RAM COLLEGE
University of Delhi



DEPARTMENT OF BOTANY
Under IQAC

organized

Workshop
on

"Bioinformatics and Computational tools for Botanical Studies"

6th -7th February, 2020
Time: 10:30 am-3:30 pm

Dr Savita Roy
Principal

Dr. Nidhi Gautam
Course Coordinator

Dr. Meenakshi Sharma
Course Coordinator



IN-HOUSE SKILL DEVELOPMENT PROGRAMME

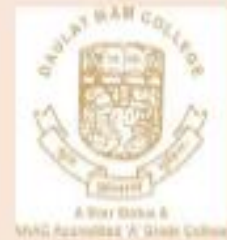
(Under IQAC)

on

BASICS OF BIOINFORMATICS:

Theory & Practice

11th - 17th JULY, 2019




The collage contains several panels:


- Top Left:** A screenshot of the NCBI Pubmed website showing search results for 'Pubmed'.
- Top Right:** A diagram titled 'Biological Data' showing the flow from Genomic sequences to Transcription, RNA sequences, Gene Expression (Microarray), Translation, Protein Expression, Protein Function Annotation, Biological Function, Protein-protein/Protein-DM Interaction, and Protein sequences and Structures.
- Middle Left:** A diagram of the central dogma of molecular biology showing the flow from DNA to RNA to Protein, with associated processes like Transcription, Translation, and Metabolism.
- Middle Right:** A diagram illustrating the process of transcription and splicing of a gene with exons and introns into a mature mRNA molecule.
- Bottom Left:** A screenshot of the Protein Data Bank (PDB) website showing the structure of protein 3J9ZF.
- Bottom Right:** A collection of phylogenetic trees and diagrams illustrating evolutionary relationships and genetic drift.

DEPARTMENT OF BOTANY, DAULAT RAM COLLEGE
UNIVERSITY OF DELHI, DELHI-110007

Dr Meenakshi Sharma & Dr Nidhi Gautam



VASUNDHARA
Botanical Society 2020-21
DAULAT RAM COLLEGE
DBT Star College, NAAC Accredited Grade "A" College NIRF - 26th Rank,
India Today Ranking-Science : 7th Rank; Commerce : 13th Rank; Humanities : 15th Rank
University of Delhi
present
A Session
On
"Future Prospects and Career Options in Data Science"
27th January, 2021
Time: 3:00pm to 4:00 pm



upGrad
RAHO AMBITIOUS
mit.b
International Institute of Information Technology Bangalore
O.P. Jindal Global University
A Private University Promoting Public Service
MICA
JINDAL GLOBAL BUSINESS SCHOOL
JINDAL SCHOOL OF BANKING & FINANCE
IMT
BIMTECH
BIRLA INSTITUTE OF MANAGEMENT TECHNOLOGY


- ❖ Link for online Registration: <https://forms.gle/qebtXbV31wCfxxQf6>
- ❖ Registration Fee: Free
- ❖ Venue: Google Meet
- ❖ For queries call at -9971940098, 9868535813

Dr Savita Roy
Principal


Speakers
Avtar Singh (Sr. Admission counselor)
Nidhin Chakkara (Sr Admission Counselor)


Staff Advisors
Dr. Nidhi Gautam
Dr. Meenakshi Sharma


UNION MEMBERS- President: Priyanka, Vice-President: Aakriti Singh, Treasurer: Gayatri Deka, General Secretary: Mansi Vatwani, Joint Secretary: Subhra Yadav

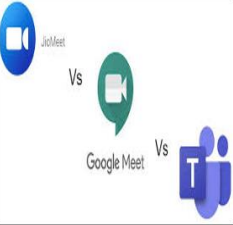


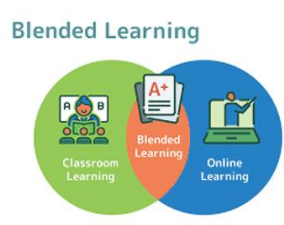
E- MANUAL
of
SDP ON "BASICS OF ONLINE CLASS TOOLS"
12th, 17th, 18th & 19th August and 17th-19th December, 2020














E-LEARNING

Patron
Dr Savita Roy (Principal)

Compiled and Edited by
Dr. Meenakshi Sharma & Dr. Nidhi Gautam

Department of Botany
Daulat Ram College
University of Delhi

