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ACADEMIC PROFILE

Year	Degree	Institution/Board	Percentage
2023	B.Sc. Biotechnology	Guru Nanak Dev University, Amritsar, Punjab.	76%
2020	12 th	Punjab School Education Board	94%
2018	10 th	Punjab School Education Board	72 %

COURSE PROFILE

Academic Degree (Under Graduate): Biochemistry (Biomolecules and Metabolism), Cell Biology, Chemistry, Zoology, Plant Physiology, Genetics, Microbiology, Enzymology, Molecular Biology, Immunology, Bioprocess Engineering , rDNA Technology , Animal Biotechnology , Plant Biotechnology , Bioinformatics, Biophysical and Biochemical tools, Biostatistics and Biomathematics.

WORKSHOPS AND TRAINING

- Attended a three days online workshop on '**Basic Techniques involved in Industrial Microbiology and Biotechnology**' organized by IIIM- Technology Business Incubator & skill development Initiative of CSIR-IIIM, Jammu (19/04/2022 to 21/04/2022)
- Presented a poster titled "Bioremediation of NO_x emission from industrial and stationary sources through *Chlorella* sp." in Two day National conference on the topic "**STRATEGIES AND SOLUTIONS TO ACHIEVE CLEAN AIR PUNJAB**" held at Punjabi University, Patiala. (24/12/2021 to 25/12/2021)
- Attended a Hands on training workshop on "**Technique Talk Series @ DCJ: Biochemistry Analyzer**"

- Attended a Hands-on training workshop on “**Technique Talk Series @ DCJ: ELISA**” organized by Department of Biotechnology, school of Life sciences, Doaba College, Jalandhar. (29/03/2022)
- Attended a Hands on training workshop on “**Technique Talk Series @ DCJ: DNA SCIENCE I & II**” organized by Department of Biotechnology, school of Life sciences , Doaba College, Jalandhar. (31/03/2022 to 01/04/2022)

EXTRA-CURRICULAR ACTIVITIES

Volunteer Work in Technique Talk Series @ DCJ: Managed the Students during the workshops held on ELISA, Biochemistry analyzer and DNA science I & II held in the Department.

SKILLS AND EXPERTISE

Bench Skills Expertise:

- Isolation of genomic DNA from Human peripheral blood.
- Isolation of genomic DNA from plants tissue.
- Spectrophotometric quantification of DNA and determination of purity.
- Agarose Gel Electrophoresis.
- Single and Double Immunodiffusion test using specific antibody and antigen.
- To study separation of bio-molecules by paper chromatography, thin layer chromatography, ion-exchange column chromatography and affinity column chromatography.
- Identification of bacteria by simple staining, negative staining, and Gram staining.
- Differential leucocytes count, Total Leucocytes count , Total RBC count and Blood Group testing.

Hands-on-Expertise in Lab Instrumentation: Spectrophotometer, Centrifuge , ELISA plate reader, Biochemical analyzer, Thermal cycler, Light microscope, Electrophoretic apparatus, Laminar hoods, UV transilluminator

Professional skills: Team Managing, Technical Problem solving, Presentation and Public Speaking, MS Office.