

An Interactive Session
On
Biotechnology and Bioinformatics: Glimpse into the Future
organized by
PG Department of Biotechnology and Bioinformatics
Guru Nanak Girls College, Model Town, Ludhiana

PG Department of Biotechnology and Bioinformatics at Guru Nanak Girls College, Model Town, Ludhiana, under guidance and support of Dr. (Mrs.) Charanjit Mahal, Director, GNGC, GNCH and GNIF and Principal, Dr. (Mrs.) Rakhi Malhotra organized an interactive session on **“Biotechnology and Bioinformatics: Glimpse into the Future”** on 4th February, 2025.



The aim of the session was to explore the vast scope of these fields, highlighting their ever-increasing impact in research, innovation and industrial applications.

Biotechnology harnesses biological systems and living organisms to develop technologies that improve human life, whereas Bioinformatics integrates computational tools to analyze biological data, playing a crucial role in genomics, drug discovery and personalized medicine. With rapid technological advancements, these fields offer numerous career opportunities, research and entrepreneurship prospects.



In this session, we explored current trends, challenges and future possibilities in Biotechnology and Bioinformatics, equipping students with vital insights into the interdisciplinary nature of these fields.

Event Details

- **Date:** 4th February, 2025
- **Venue:** Department of Biotechnology, 2nd Floor, Science Block
- **Speakers:**
 - Mrs. Nancy Assistant Professor in Biotechnology (Presentation on Biotechnology Glimpses into the Future)
 - Miss Shweta Assistant Professor in Biotechnology (Presentation on Career Path in Biotechnology)
 - Miss Mansi Assistant Professor in Bioinformatics (Presentation on Scope of Bioinformatics: A Career Guide)
- **Participants:** Students from UG and PG Department of Biotechnology and Bioinformatics



Objectives of the Session

- Understanding of Core Concepts
- Exploring Career Opportunities
- Discussing Technological Advancements
- Bridging Theory and Industry Applications
- Encouraging Research and Innovation
- Promoting Interdisciplinary Learning
- Role of AI in Biotechnology and Bioinformatics
- Emphasis on Developing Critical Analysis Skills
- Overview of Entrepreneurship Programs in India

Outcomes

- Enhancement of knowledge
- Explored Career Opportunities
- Enhanced Practical Skills
- Encouragement for Research and Innovation
- Engagement in Networking



Dr. Manpreet Kaur Paintal
Assistant Professor
PG Department of Biotechnology and Bioinformatic

