JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
WAKNAGHAT, P.O. – WAKNAGHAT,
TEHSIL – KANDAGHAT, DISTRICT – SOLAN (H.P.)
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Report on Bio hackathon
Organised by Synapse Club under BIOxcelerate 2026

1. Introduction

The Bio Hackathon was successfully organized by the **Synapse Club** as part of its flagship event, **BIOxcelerate 2026 in collaboration with IIC JUIT**. The event was conceptualized to promote problem-solving, innovation, and
interdisciplinary thinking among students in the domains of biotechnology, bioinformatics, and life sciences.
The BioHackathon provided a competitive yet collaborative platform where participants were challenged to analyze biological problems, design feasible scientific solutions, and present their ideas within a limited time frame. The event emphasized analytical thinking, teamwork, and the practical application of theoretical knowledge, thereby bridging the gap between classroom learning and real-world scientific challenges.

2. Objectives of the BioHackathon

The BioHackathon was conducted with the following objectives:

- To encourage innovative and research-oriented thinking among students
- To promote interdisciplinary problem-solving in biotechnology and bioinformatics
- To enhance analytical, computational, and experimental planning skills
- To provide exposure to real-world biological challenges
- To foster teamwork, communication, and scientific presentation skills

3. Event Details

- **Event Name:** Bio Hackathon
- **Date:** 23 January 2026
- **Venue:** LT3
- **Organizing Body:** Synapse Club
- **Flagship Event:** BIOxcelerate 2026
- **Participants:** Undergraduate and Postgraduate students
- **Mode:** On-campus, team-based competition
- **Number of Teams:** 12

4. Event Coordination and Management

- The Bio Hackathon was coordinated by **Mr. Devansh Kalia**, President of the Synapse Club, who played a pivotal role in the conceptualization, planning, and execution of the event. Prior to the

commencement of the hackathon, a detailed orientation session was conducted to explain the event structure, problem statements, evaluation criteria, ethical considerations, and time constraints.

- Participants were briefed on teamwork guidelines, originality of ideas, data integrity, and responsible scientific conduct. The organizing committee ensured smooth coordination throughout the event, including venue management, time monitoring, and facilitation of interactions between participants and evaluators.

5. Methodology and Execution

The BioHackathon was conducted in a structured and time-bound manner. Participating teams were provided with problem statements related to biotechnology, bioinformatics, healthcare, environmental sustainability, and industrial applications.

The execution involved the following stages:

- Understanding and analyzing the assigned problem statement
- Conducting background research and brainstorming possible solutions
- Designing experimental, computational, or hybrid workflows
- Preparing a structured solution including methodology, expected outcomes, and feasibility
- Presenting the proposed solution before the judging panel

Teams demonstrated critical thinking by integrating biological concepts with computational tools, experimental design, and innovation. Emphasis was placed on feasibility, originality, and scientific reasoning rather than mere theoretical explanations.

6.Mid-Evaluation Committee and Special Jury

The mid-evaluation of the event was conducted to assess participant progress, ensure adherence to guidelines, and provide constructive feedback during the execution phase. The evaluation process was carried out by the office bearers of the **Synapse Club**, along with designated special judges.

Mid-Evaluation Committee (Office Bearers)

- **Mr. Devansh Kalia**
  President, Synapse Club
- **Mr. Prerak Chouhan**
  General Secretary, Synapse Club
- **Mr. Aditya Sharma**
  Treasurer, Synapse Club

The office bearers closely monitored team progress, evaluated methodological planning, assessed scientific clarity, and ensured compliance with ethical and biosafety standards throughout the mid-evaluation phase

Special Judges

- **Ms. Prateeksha Guasian**
  Special Judge

- **Mr. Ritik Joshi**
  Special Judge

The special judges provided independent evaluation and expert feedback, focusing on innovation, feasibility, clarity of concept, and overall scientific merit. Their involvement added depth and objectivity to the evaluation process, contributing significantly to maintaining fairness and academic rigo

7.Final Evaluation Committee

The final evaluation of the competition was conducted by a distinguished panel of faculty members, ensuring academic rigor, transparency, and fairness in the assessment process.

Evaluation Panel

- **Prof. Hemant Sood**
- **Dr. Raj kumar**
- **Dr. Udayabanu, M**
- **Dr. Shikha Mittal**

The panel evaluated the participants based on predefined criteria including scientific merit, innovation, technical execution, clarity of presentation, feasibility of the proposed idea/design, and adherence to safety and ethical guidelines.

Winners and Recognitions

- **First Position:** Team OOPs!
- **Second Position:** Helix Net
- **Third Position:** ML CODERS
- **Consolation Prize:** Protofold & Genomic Coders

8.Conclusion

The event was successfully conducted as part of **BIOxcelerate 2026**, fulfilling its objective of promoting scientific thinking, creativity, and innovation among students. Through well-structured planning, disciplined execution, and rigorous evaluation, the event provided participants with a valuable platform to apply theoretical knowledge in a practical and intellectually engaging manner.

The active involvement of the organizing team, office bearers of the Synapse Club, and the evaluation committees ensured smooth coordination, adherence to academic and ethical standards, and transparency throughout the process. The event not only enhanced participants' technical and analytical skills but also encouraged teamwork, problem-solving, and effective scientific communication.

Overall, the event significantly contributed to strengthening the academic and research-oriented culture within the Department of Biotechnology and Bioinformatics and set a strong foundation for future initiatives under the Synapse Club.

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Photo Gallery

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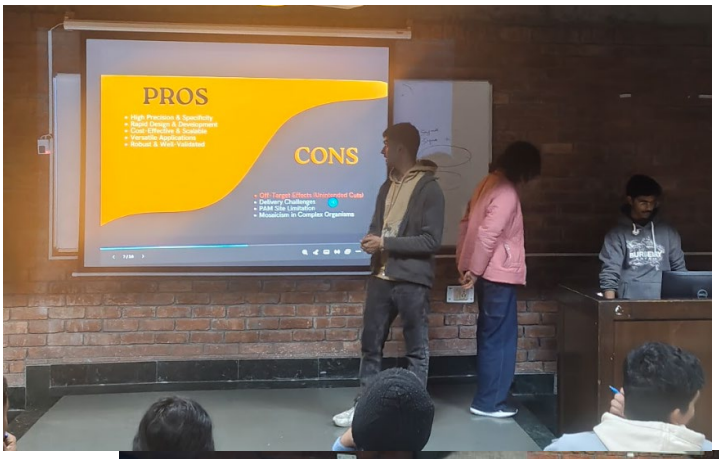

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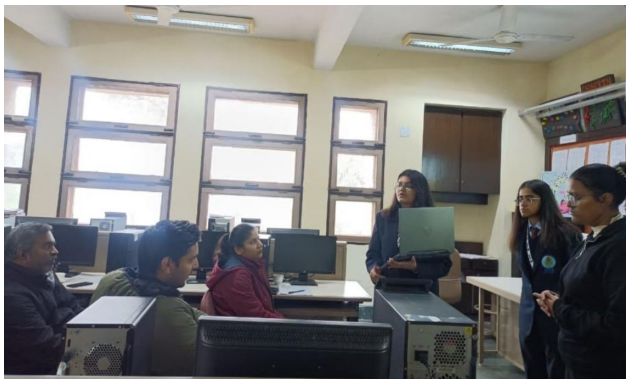

Social Media Link
https://www.instagram.com/p/DU3nu2DE_BZ/?igsh=MTNvaGtzemVva2p3bQ==

List of participants

Team Name	Lead Name	Lead ID	Member 2	ID	Member 3	ID	Member 4	ID
Protofold	Ankit Kumar	251033047	Ishant Thakur	251033036	—	—	—	—
The Purple Hand Gang	Asmita Verma	251011031	Shriya Sharma	251010013	Kavya Sharma	251010005	Aastha Verma	251011007
ML CODERS	Sumant Tyagi	251010003	Ayush Kumar Shivhare	251011027	Ayush Yadav	251030144	Arpita Singh	231011012
Genomic Coders	Aditya Singh	251010001	Rishav Raj	251010002	Saksham Thakur	251010010	Satvik Parv	251010009
TeamMango	Amit Yadav	251030131	Suryansh	251033035	Aditya Kumar	251030124	Ketan Pratap Singh	251030288
HelixNet	Ananya Yadav	251030033	Harsh Chauhan	251030049	Atishya Jain	251360007	—	—
Cellmates	Abhay Kanwar	251033120	Aaryan Gakhar	251011013	—	—	—	—
Team OOPS!	Nandini Garg	251033040	Ananya Pandey	251033049	Suvigya Singh	251033030	Nil	—
GeneZ	Mishthi Dutta	251010004	Asmi Chaudhary	251032055	—	—	—	—

Boixos Nois	Abhinav Chaudhary	251033005	Anshuman Sharma	251033084	Dushyant Chaudhary	251033060	Shamit Garg	251033027
Charizard (Cidering)	Achal	251030233	Harshit	251030225	—	—	—	—
Codon Crushers	Devanshi Singh	241011019	Riya Chauhan	241011009	Sinku Kumari	241011024	—	—