



HANDS-ON WORKSHOP

# MOLECULAR BIOLOGY & BIOINFORMATICS TECHNIQUES

Organized by

Jaypee University of Information Technology (JUIT) , Waknaghat , Solan

&

St. Bede's College, Shimla

## **PATRON**

### **Vice Chancellor, JUIT, Solan**

Prof. R.K.Sharma

### **Principal, St. Bede's College, Shimla**

Prof. Sr. Molly Abraham

## **Convener**

**Dr. Sudhir Kumar**

Prof. & Head, Department of Biotechnology & Bioinformatics, JUIT, Waknaghat, Solan (H.P.)

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**Ms. Reena Thakur**

Associate Prof. & Head, St. Bede's College, Shimla, Himachal Pradesh

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## **Resource Persons**

**Dr. Rahul Shrivastava**, Associate Prof.

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*(Session on:- DNA and RNA Isolation, Restriction Digestion)*

**Dr. Shikha Mittal**, Assistant Prof.

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*(Session on :- BLAST , MSA, Phylogenetic Analysis)*

## **Target Audience**

- Undergraduate Science Students
- Postgraduate Science Students

## **DATE & TIME**

7th December, 2023

9:30 AM - 4:00 PM

<https://www.juit.ac.in/biotechnology-bioinformatics>

## **One Day Workshop on Molecular Biology & Bioinformatics Techniques**

**Organized by:** Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology Waknaghat

**Organized at:** St. Bede's College, Shimla

**Date:** 07 Dec 2023

**No. of Participants:** 60 (B.Sc. Biotechnology, B.Sc. Microbiology, B.Sc. Botany, & B.Sc. Zoology Students)

**Resource Persons:**

1. Dr. Rahul Shrivastava, Associate Professor
2. Dr. Shikha Mittal, Assistant Professor
3. Mr. Baleshwar, Technical Staff

Department of Biotechnology and Bioinformatics Jaypee University Technology Waknaghat, Solan organized a one day workshop on “Molecular Biology & Bioinformatics Techniques” at St. Bede's College, Shimla on 07 Dec, 2023. Prof. Sudhir Kumar from JUIT and Ms. Reena Thakur from St. Bede's College, Shimla coordinated the workshop. JUIT Ph.D. research scholars – Ms. Sakshi Sharma and Ms. Suhani Bhagta, along with M.Sc. Biotechnology students Ms. Sneha Joshi, Ms. Tanvi Chadha, Ms. Ritika Chauhan and Ms. Sanskriti Sauhta were a part of the team for conducting the workshop and provided technical help and hands-on demonstration to the students.

The main objective of the workshop was to make B.Sc. Biotechnology and B.Sc Botany Students gain hands-on working experience of Molecular Biology and Bioinformatics Techniques and to showcase the strength of Jaypee University in this area.

The workshop started with the Welcome and Introduction session delivered to the students by Prof. Sudhir Kumar (Head, BTBI, JUIT) on the topic “OFF SHOOTS” focusing on how to improve learning. This was then followed by practical-cum demonstration sessions on different modules of the workshop. Various Biotechnology techniques for genomic DNA, plasmid DNA & RNA isolation and restriction digestions were demonstrated by Dr. Rahul Shrivastava and technical staff Mr. Baleshwar. Whereas demonstration on Bioinformatics techniques including BLAST, MSA and phylogenetic tree was given by Dr. Shikha Mittal.



