



BIOTRACE

INTRODUCTION

It is an immersive forensic science competition where participants solve a simulated biological murder case using real-world forensic principles including STR DNA profiling, Blood spatter interpretation, Toxicology analysis, Forensic entomology, Microbiome trace evidence and Digital access logs. Teams will analyze a professionally designed evidence pack and scientifically determine the perpetrator and the expected sequence of events that happened.



EVENT STRUCTURE

Teams will receive the following evidences:

- Printable forensic evidence sheets.
- Lab reports
- DNA profiles
- Toxicology data
- Microbiome sequencing summary

Teams should analyse the given evidences in the given time of 2 hrs and present the following:

- Suspect identification
- Evidence justification
- Timeline reconstruction



JUDGING CRITERIA

Criteria Point Correct suspect identification - 25

Interpretation of STR mixture - 20

Blood spatter reasoning - 15

Microbiome trace analysis - 15

Toxicology interpretation - 10

Timeline accuracy - 10

Critical evaluation of alternate suspects - 5

GUIDELINES:

- **Eligibility:** Students pursuing an Undergraduate/Master's Degree in any discipline.
- **Team size:** Maximum size of up to 5 members.
- **No double-trouble:** Only one entry would be acceptable. In the case of multiple entries, the first one would be taken for granted by default.



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COGNIZANCE

IIT ROORKEE

QUERIES:

For any queries regarding the Problem Statement, you can contact the coordinator:

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Or mail your queries with the **Subject “Query | Biotrace | Cogni ID | Team Name”** to submission.cognizance@iitr.ac.in