

National Forensic Sciences University

organizes

Forensic Hackathon

13th April, 2025

Vigyan Bhawan, New Delhi

Program Schedule

Common Time Blocks (All Participants)	
Time	Event
08:30 – 09:15 AM	Registration
09:20 – 10:50 AM	Film Forensic Quiz
11:00 – 12:00 Noon	Panel Discussion – 1
12:00 – 01:30 PM	Inauguration
01:30 – 02:15 PM	Lunch Break
02:15 – 03:15 PM	Panel Discussion – 2
03:15 – 04:45 PM	Movie Screening
04:45 – 05:00 PM	Tea Break
05:00 – 06:00 PM	Valedictory

Hall 5	
Theme 1: Forensic Electronics / Physics (21 Proposals)	
Time Slot	Activity
10:00 – 10:20 AM	Proposal 1 (FE/PHY-01) <ul style="list-style-type: none"> ▶ Project Title: Development of Mobile Phone Event Log Analysis Tool. ▶ Participants: Cdr Sunil Srivastava (retd), Mr. Abhishek Jawak ▶ Affiliation: Cyber Crime Helpline LLP
10:20 – 10:40 AM	Proposal 2 (FE/PHY-02) <ul style="list-style-type: none"> ▶ Project Title: Intrusion Lens: Real-Time Shellbag, Jumplist, and Recent Docs Analysis for Insider Threat Detection ▶ Participants: Keshvi Mistry, Shloka Shah, Mr. Aditiya More ▶ Affiliation: Gujarat University, Ahmedabad, Gujarat,
10:40 – 11:00 AM	Proposal 3 (FE/PHY-03) <ul style="list-style-type: none"> ▶ Project Title: Beyond the Mask: Truflect's DeepReal Traps Deep Fakes in Their Emotional Contradictions. ▶ Participants: Nistha Jaitly, Ananya Girota, Adarsh Aryan, Nishita Singh,, Satyam Kumar Prasad ▶ Affiliation: National Forensic Sciences University
11:00 – 11:20 AM	Proposal 4 (FE/PHY-04) <ul style="list-style-type: none"> ▶ Project Title: VoIP SIM Geo-Identification System for comprehensive investigation. ▶ Participants: Soukarya Sur:, Yash Meet Almal:, Sanya Arora ▶ Affiliation: National Forensic Sciences University Delhi campus
11:20 – 11:40 AM	Proposal 5 (FE/PHY-05)

	<ul style="list-style-type: none"> ➤ Project Title: Nirnay – Fake News Detection in Live Broadcasts ➤ Participants: Venkatesh R ➤ Affiliation: Bannari Amman Institute of Technology
11:40 – 12:00 PM	<p>Proposal 6 (FE/PHY-06)</p> <ul style="list-style-type: none"> ➤ Project Title: MobLogger: A Comprehensive GUI-Based Mobile Log Analysis Tool ➤ Participants: Saloni Bhatt,, Fenil Fichadia, Shadab Mazhar ➤ Affiliation: Narnarayan Shastri Institute of Technology, Institute of Forensic Science and Cyber Security affiliated with NFSU
12:00 – 12:20 PM	<p>Proposal 7 (FE/PHY-07)</p> <ul style="list-style-type: none"> ➤ Project Title: Blockchain-Based Evidence Chain of Custody & Tracking System ➤ Participants: SAMIT SANGHAI, ATHARVA THAKRE, ABHISHEK JAGTAP, MAYUR ZANWAR ➤ Affiliation: Asset Chain Techlligence Pvt Ltd
12:20 – 12:30 PM	Buffer / Transition
12:30 – 1:30 PM	Inauguration Function
1:30 – 2:15 PM	Lunch Break
2:15 – 2:20 PM	Transition Time
2:20 – 2:40 PM	<p>Proposal 8 (FE/PHY-08)</p> <ul style="list-style-type: none"> ➤ Project Title: Exploiting ESP32 for Wireless Keystroke Injection on iOS using Bluetooth HID Spoofing ➤ Participants: Gaumit Patel, Anuj Rathod, Dr Twisha Shah ➤ Affiliation: Gujarat University, Ahmedabad, Gujarat
2:40 – 3:00 PM	<p>Proposal 9 (FE/PHY-09)</p> <ul style="list-style-type: none"> ➤ Project Title: Secure IP Identification & Encrypted Data Retention for WhatsApp Calls: A Forensic & Privacy-Preserving Solution ➤ Participants: Priyanshu Sahoo, Ananya Roy, Harish Ogare ➤ Affiliation: National Forensic Sciences University – Tripura Campus
3:00 – 3:20 PM	<p>Proposal 10 (FE/PHY-10)</p> <ul style="list-style-type: none"> ➤ Project Title: Tool for CCTV image enhancement using AIML technology. ➤ Participants: Utkarsh Mishra, Devansh Verma, Garvita Sharma, Dr.Twisha Shah, Kiran Dodiya ➤ Affiliation: National Forensic Sciences University, Dharwad Campus
3:20 – 3:40 PM	<p>Proposal 11 (FE/PHY-11)</p> <ul style="list-style-type: none"> ➤ Project Title: Web Browser Artifact Analysis: A Tool-Based Approach for Digital Investigators ➤ Participants: Girish Badgujar,, Dr. Twisha Shah,, Kiran Dodhiya ➤ Affiliation: Gujarat University, Ahmedabad, Gujarat
3:40 – 4:00 PM	<p>Proposal 12 (FE/PHY-12)</p> <ul style="list-style-type: none"> ➤ Project Title: Development of mobile phones event log analysis tool ➤ Participants: Samuel Paul, Sam Moses, Devapriya Venugopalan ➤ Affiliation: Karunya Institute Of Technology And Sciences
4:00 – 4:15 PM	Tea Break
4:15 – 4:35 PM	<p>Proposal 13 (FE/PHY-13)</p> <ul style="list-style-type: none"> ➤ Project Title: Capturing of Drones using Signal Jamming and Data Retrieval from Rogue Drones ➤ Participants: Chembrolu Bala Somesh, Yuvraj Mishra, Tridip Baksi

	<ul style="list-style-type: none"> ▶ Affiliation: National Forensic Sciences University – Tripura Campus
4:35 – 4:55 PM	<p>Proposal 14 (FE/PHY-14)</p> <ul style="list-style-type: none"> ▶ Project Title: Forensic Anveshak: Unveiling Audio-Visual Deepfake Deception using AI biometrics ▶ Participants: Dr Gaurav Jaswal,, Mr. Asheesh Maihla, Mr. Naseeb Singh Patial, Dr Meenakshi Mahajan, Kushal Dinesh Endait, Suraj Sambhaji Jadhav ▶ Affiliation: State Forensic Science Laboratory (SFSL), Directorate of Forensic Services, Shimla Hills, Junga
4:55 – 5:15 PM	<p>Proposal 15 (FE/PHY-15)</p> <ul style="list-style-type: none"> ▶ Project Title: Forensic Anveshak: AI-Powered Deepfake Detection for Indian Law Enforcement and Forensic Investigation Agencies ▶ Participants: Dr Gaurav Jaswal,, Dr Meenakshi Mahajan ▶ Affiliation: State Forensic Science Laboratory (SFSL), Directorate of Forensic Services, Shimla Hills, Junga
5:15 – 5:35 PM	<p>Proposal 16 (FE/PHY-16)</p> <ul style="list-style-type: none"> ▶ Project Title: Cybersecurity AI Assistant ▶ Participants: Dr Panem Charanarur, Aditya Mohan Srivastava, Bitan Chakrabarty ▶ Affiliation: National Forensic Sciences University Tripura
5:35 – 5:55 PM	<p>Proposal 17 (FE/PHY-17)</p> <ul style="list-style-type: none"> ▶ Project Title: myFRT Disk Lab – Digital Forensics + AI DeepTrust: AI-Powered Deepfake Detection and Blockchain Verification ▶ Participants: Swapnil Patil ▶ Affiliation: Karpuragaurai Technologies Pvt. Ltd.
5:55 – 6:15 PM	<p>Proposal 18 (FE/PHY-18)</p> <ul style="list-style-type: none"> ▶ Project Title: nan ▶ Participants: Hariom Ahirwar, Aayush Rana, Priyanshu Sangolkar ▶ Affiliation: National Forensic Sciences University
6:15 – 6:35 PM	<p>Proposal 19 (FE/PHY-19)</p> <ul style="list-style-type: none"> ▶ Project Title: Real-Time AI-Powered Harassment Detector for Forensic Surveillance ▶ Participants: Nayan Kumar, Dr Panem Charanarur, Kartikeya Mishra ▶ Affiliation: National Forensic Sciences University, Tripura Campus
6:35 – 6:55 PM	<p>Proposal 20 (FE/PHY-20)</p> <ul style="list-style-type: none"> ▶ Project Title: Tools for the Identification of Deepfake Images and Videos. ▶ Participants: Nikhil Raj II., Deepak Kumar Ravi, Gaurav Raj ▶ Affiliation: National Forensic Sciences University
6:55 – 7:15 PM	Proposal 21 (FE/PHY-21)
7:15 – 7:30 PM	Closing / Feedback Session

Hall 6 Themes 2, 3 & 4: Biology, Chemistry, Psychology Session 1 Forensic Biology (7 Proposals)	
Time Slot	Activity
10:00 – 10:20 AM	Proposal 1 (BIO-01) ► Project Title: Machine-Learning based Chronological and Biological Age Estimation of a Person based on IgG N-glycan Profile from Biological Fluids. ► Participants: Dr. Sumit Kumar Singh, Pranav Chopra, Santanu Singh (Team Member) ► Affiliation: Indian Institute of Technology (BHU) Varanasi
10:20 – 10:40 AM	Proposal 2 (BIO-02) ► Project Title: Advanced Forensic Evidence Collection and Preservation Kit with Built-in Biometric Security and Video Documentation ► Participants: SAFAT YOUSUF, PRIYANKA ► Affiliation: Lovely Professional University, Punjab-144411
10:40 – 11:00 AM	Proposal 3 (BIO-03) ► Project Title: Development of a Portable USB-based DNA Forensic Analyzer with Real-time Analysis and GUI Support ► Participants: Deepika Pateriya, Siddhant Mahato, Mitali Singh ► Affiliation: Indian Institute of Science Education and Research, Bhopal
11:00 – 11:20 AM	Proposal 4 (BIO-04) ► Project Title: Qualitative analysis of forensic evidence based on machine learning ► Participants: Aakarshan bashisth,, Akshay Kumar, Dr. Praveen Yadav ► Affiliation: NFSU, Delhi Campus
11:20 – 11:40 AM	Proposal 5 (BIO-05) ► Project Title: Unlocking the secrets of DNA ► Participants: Adrish Sekhar Sarkar, Shashwat Maurya, Parmar Jay Hareshbhai ► Affiliation: School of Forensic Science, National Forensic Sciences University, Gandhinagar, Gujarat
11:40 – 12:00 PM	Proposal 6 (BIO-06) ► Project Title: Individual Identification from Mixed DNA Samples Using Quantum Computing ► Participants: Adarsh V.P, Aiswarya Santhosh, Srushti Sudesh Bhangi ► Affiliation: National Forensic Sciences University, Pune Campus
12:00 – 12:20 PM	Proposal 7 (BIO-07) ► Project Title: BioSpot-ID: A Cost-Effective and Rapid Colorimetric Strip-Based System for Spot Identification of Biological Fluids" ► Participants: GURUPRANATHARTHIHARAN B P, KMALESH R,

	KEEISTU M S ▶ Affiliation: BANNARI AMMAN INSTITUTE OF TECHNOLOGY
12:20 – 12:30 PM	Buffer / Transition

Session 2 – Forensic Chemistry (10 Proposals)	
Time Slot	Activity
2:20 – 2:40 PM	<p>Proposal 1 (CHEM-01)</p> <ul style="list-style-type: none"> ▶ Project Title: Scalable RAMPP Sensors for the Detection of Toxic substances of Forensic Importance ▶ Participants: Prashant Singh, Dr. Rakhi Agarwal ▶ Affiliation: National Forensic Sciences University, Delhi
2:40 – 3:00 PM	<p>Proposal 2 (CHEM-02)</p> <ul style="list-style-type: none"> ▶ Project Title: Microfluidic device for simultaneous testing of Food Toxin Contaminants and Food Adulterants in staple foods and animal feeds ▶ Participants: Yashrajsinh Zala, Nainisha Kansara, Jayrajsinh Sarvaiya ▶ Affiliation: NFSU Gandhinagar
3:00 – 3:20 PM	<p>Proposal 3 (CHEM-03)</p> <ul style="list-style-type: none"> ▶ Project Title: Forensic Investigation of Heavy Metal Contamination: Bioremediation Using Soil Bacteria ▶ Participants: Kamalesh C, Kalaivani V, Faiza parveen P ▶ Affiliation: Gardencity University
3:20 – 3:40 PM	<p>Proposal 4 (CHEM-04)</p> <ul style="list-style-type: none"> ▶ Project Title: Development of Luminescent Metal Organic Framework Comprising of S/Se/Te, N and O Functionalities for rapid and on-spot detection of nitro-explosives ▶ Participants: Soumil Rane, Gopika Sunil, Bhaskar Banerjee ▶ Affiliation: College of Traffic Management – Institute of Road Traffic Education (An Affiliated institute of the National Forensic Science University, Gandhinagar)
3:40 – 4:00 PM	<p>Proposal 5 (CHEM-05)</p> <ul style="list-style-type: none"> ▶ Project Title: SURAKSHA: Smart Ultra-Responsive Aerogel Kit for Sensitive High-Resolution Analysis ▶ Participants: Dr. Rohit Kanojia, Shrey Ahuja, Niyati Khurana ▶ Affiliation: National Forensic Sciences University, Delhi
4:00 – 4:15 PM	<i>Tea Break</i>
4:15 – 4:35 PM	<p>Proposal 6 (CHEM-06)</p> <ul style="list-style-type: none"> ▶ Project Title: InstaTox: Rapid Detection of Toxic Substances in Biological Fluids via Paper Analytical Devices (pads) ▶ Participants: Pushpitha Rani M M, Aishiki Sadhukhan, Dr. Akanksha Singh Kachhawaha ▶ Affiliation: National Forensic Sciences University, Gandhinagar
4:35 – 4:55 PM	<p>Proposal 7 (CHEM-07)</p> <ul style="list-style-type: none"> ▶ Project Title: CRISPR-Cas Based Microfluidic Poison Detection Sensors ▶ Participants: Ms. Divyanshi Srivastava, Mr. Vikas Chandra Gupta, Dr. Meenu Singh

	<ul style="list-style-type: none"> ➤ Affiliation: IILM University, Greater Noida
4:55 – 5:15 PM	<p>Proposal 8 (CHEM-08)</p> <ul style="list-style-type: none"> ➤ Project Title: Plant-Derived Neutralizers for Snake Venom: Detection and Species Identification ➤ Participants: Anjali Devi A, Ritu Nagdev ➤ Affiliation: National Forensic Sciences University, Gandhinagar
5:15 – 5:35 PM	<p>Proposal 9 (CHEM-09)</p> <ul style="list-style-type: none"> ➤ Project Title: Utility of various human biological samples to detect snake venom in the neurotoxic snake bite victims using immunodiffusion and immunoelectrophoresis methods ➤ Participants: Dr Neethiya T, Dr Krishna Dutt Chavali, ➤ Affiliation: AIIMS, Raipur
5:35 – 5:55 PM	<p>Proposal 10 (CHEM-10)</p> <ul style="list-style-type: none"> ➤ Project Title: AI-Driven Molecular Reconstruction, Toxicity Prediction & Metabolic Impact Reporting for Forensic Investigations ➤ Participants: Sneha Shaji, Abhigya Sinha ➤ Affiliation: VIT Bhopal University

Session 3 – Forensic Psychology (7 Proposals)	
Time Slot	Activity
5:55 – 6:15 PM	Buffer / Transition
6:15 – 6:35 PM	<p>Proposal 1 (PSY-01)</p> <ul style="list-style-type: none"> ➤ Project Title: VConnect: VR Training & Stress Resilience for Law Enforcement & Military. ➤ Participants: Shyamkumar M, Dinesh K, Keerthana S ➤ Affiliation: VISION Studios
6:35 – 6:55 PM	<p>Proposal 2 (PSY-02)</p> <ul style="list-style-type: none"> ➤ Project Title: From Warning Signs To Wellbeing : Addressing Psychological Risks In Schools And Colleges ➤ Participants: Mugdha Roy, B. Mimisha Hazari ➤ Affiliation: National Forensic Sciences University (Gandhinagar & Delhi Campus)
6:55 – 7:15 PM	<p>Proposal 3 (PSY-03)</p> <ul style="list-style-type: none"> ➤ Project Title: साइबर कवच : "AI-Driven Phishing Susceptibility and Prevention System" ➤ Participants: Megha Agarwal,, Garvit Joshi, Kartik Pareek ➤ Affiliation: OP Jindal Global University,
7:15 – 7:35 PM	<p>Proposal 4 (PSY-04)</p> <ul style="list-style-type: none"> ➤ Project Title: Mind Ease: Detect, Assess, and Destress ➤ Participants: Ved Nanoty, Shruti Khairnar, Mahesh Thor ➤ Affiliation: R. J. College of Arts, Science & Commerce (AUTONOMOUS), Mumbai & Government Institute of Forensic Science, Chhatrapati Sambhajinagar
7:35 – 7:55 PM	<p>Proposal 5 (PSY-05)</p> <ul style="list-style-type: none"> ➤ Project Title: Impact of Adverse Childhood Experiences (ACEs) in Criminal Behaviour in Indian Population and Preparation of a comprehensive counselling module for Inmates ➤ Participants: Dr Natasha Agarwal, Aditi Sharma, Ashutosh



	Upadhyay ➤ Affiliation: Uttar Pradesh State Institute of Forensic Science (UPSIFS), Lucknow
7:55 – 8:15 PM	Proposal 6 (PSY-06) ➤ Project Title: SoumiTattva - AI-Driven Mental Health Screening for Defence and Police: Early Detection and Prevention of Psychological Distress ➤ Participants: Bikram Sadhukhan ➤ Affiliation: National Forensic Sciences University
8:15 – 8:35 PM	Proposal 7 (PSY-07) ➤ Project Title: ASMR: Intervention to enhance sleep quality in army personnel. ➤ Participants: Yashika Papne, Anshika Jain ➤ Affiliation: Rashtriya Raksha University
8:35 – 8:50 PM	Closing / Feedback Session

