

Training Program on Capacity Building for Crime Research and Intelligence Analysis – Week-1					
Day1	Introduction to Digital Forensics	Introduction to Digital Forensics	Types of Digital Evidence and various case studies	Fundamentals of Python Programming: Variables and Operators, Loops	Functions and Data Structures in Python Programming
Day2	Fundamentals of Cyber Security and Case Studies	Fundamentals of Cyber Security and Case Studies	Introduction to Latest Cyber Frauds and Cyber Hygiene	Cyber Crime Investigation hands on case study	Cyber Crime Investigation hands on case study
Day3	Fundamentals of Numpy for Data processing	Fundamentals of Pandas for Data manipulation and processing	Extracted Data Analysis using Open-source tools and technology	Extracted Data Analysis using Open-source tools and technology	Fundamentals of Matplotlib and Seaborn for Data Visualization
Day4	Exploratory Data Science (EDA)	Exploratory Data Science (EDA)	Case Study: Crimes Data Analysis and Visualization	Data Visualization tools and technology in Digital Investigation Hands On	Data Visualization tools and technology in Digital Investigation Hands on
Day5	Windows Registry and Browser Application Forensics	OS Forensics	OS Forensics Case Studies	Case Study: Network Forensics	Temporal Analysis of Crime Trends

Training Program on Capacity Building for Crime Research and Intelligence Analysis – Week-2

Day1	Live Memory Forensics and Case Studies	Live Memory Forensics and Case Studies	Data Recovery and Data Carving with Counter Anti Forensics Methods	Fundamentals of Machine Learning in Digital Forensics	Fundamentals of Artificial Intelligence in Digital Forensics
Day2	Supervised Learning: Linear Regression with application on Cybersecurity	Supervised Learning: Classification with application on Cybersecurity	Unsupervised Learning: KNN with application on Cybersecurity	Disk and OS Forensics Hands on	Windows Registry and Browser Forensics Hands on
Day3	Mobile Forensics Hands on with Open-Source tools	Mobile Forensics Hands on with Open-Source tools	Mobile Forensics Hands on with Open-Source tools	Fundamentals Deep Learning: Neural Network	Convolutional Neural Networks
Day4	Application of Deep learning in Cybersecurity	Case Study: Fake News Detection and Verification through OSINT	Case Study: Deep Fake A rising threat to Cybersecurity	Fundamentals of OSINT and Social Media Investigations	Fundamentals of OSINT and Social Media Investigations
Day5	Hands on All Source Intelligence with Open-Source Tools	Hands on All Source Intelligence with Open-Source Tools	Fundamentals of Blockchain	Case Study: Fundamentals of Blockchain	Valedictory Session