Maharaja Surajmal Institute of Technology, New Delhi-110058

Department of Information Technology

FDP Report

Topic Name	Protect Yourself against Cyber Threats and Online Risks
Type of Activity Seminar/Webinar/Workshop	FDP
Name of the Expert	Dr. Rakesh Wats & his Team, NITTTR Chandigarh
Mode, Date and Time	Online, 5th-9th May 2025
Target Audience	Faculty
Organized by	Dr. Sonika Malik, Mr. Parveen Kumar, Mr. Akshay Singh
Attended Participants	30

Day 1: Monday, 05th May 2025

- **Session I (10:00 – 11:30 AM)**
  Topic: About the Programme and Registration
  Speaker: Dr. Rakesh Wats

- **Session II (11:45 AM – 1:15 PM)**
  Topic: Protection in the Digital Era: Online Threats, Remedies and Vulnerability Analysis
  Speaker: Dr. Kamaldeep

- **Session III (2:30 – 4:00 PM)**
  Topic: Detection and Prevention of Malicious Apps in Android OS
  Speaker: Dr. Shweta Sharma

The course commenced with a welcome session and registration, led by Dr. Rakesh Wats, who introduced the participants to the objectives and significance of the course in today's digital landscape. The second session, delivered by Dr. Kamaldeep, focused on "Protection in the Digital Era," highlighting the growing landscape of cyber threats, various types of online vulnerabilities, and appropriate remedies. In the afternoon, Dr. Shweta Sharma conducted a technical session on the "Detection and Prevention of Malicious Apps in Android OS," providing practical insights into common attack vectors on mobile platforms and methods to safeguard personal devices. The day laid a strong foundation for understanding the essentials of cybersecurity in a digital environment.

Day 2: Tuesday, 06th May 2025

- **Session I (10:00 – 11:30 AM)**
  Topic: Password Cracking and Building Robust Safeguards
  Speaker: Dr. Shweta Sharma

- **Session II (11:45 AM – 1:15 PM)**
  Topic: Identity Theft and Data Theft: Detection and Prevention
  Speaker: Dr. K.G Srinivasa

- **Session III (2:30 – 4:00 PM)**
  Activity: Assignment-I: Case Study – Recent Cyber Attacks in India
  Moderator: Dr. Kamaldeep

The second day emphasized personal security practices, starting with Dr. Shweta Sharma's engaging session on "Password Cracking and Building Robust Safeguards." She discussed common password attack techniques and the principles of designing strong authentication mechanisms. The next session, led by Dr. K.G. Srinivasa, explored "Identity Theft and Data Theft," emphasizing preventive strategies and detection mechanisms to protect sensitive personal and organizational data. The day concluded with Assignment-I, a case study analysis session moderated by Dr. Kamaldeep, where participants reviewed recent high-profile cyberattacks in India and evaluated their implications, fostering practical understanding and critical thinking.

Day 3: Wednesday, 07th May 2025

- **Session I (10:00 – 11:30 AM)**
  Topic: Fake E-mail Recognition using Header Analysis
  Speaker: Dr. Gaurav Kumar

- **Session II (11:45 AM – 1:15 PM)**
  Topic: Safe Online/Mobile Banking
  Speaker: Dr. Manisha Malik

- **Session III (2:30 – 4:00 PM)**
  Activity: Assignment-II: Case Study – Tech Abuse and Financial Frauds in India
  Moderator: Dr. Kamaldeep

Day three delved into real-world email and financial fraud scenarios. Dr. Gaurav Kumar kicked off the day with a technical session on "Fake Email Recognition using Header Analysis," where participants learned how to identify phishing and spoofed emails through header inspection. This was followed by a session on "Safe Online/Mobile Banking" by Dr. Manisha Malik, who discussed secure transaction practices, multi-factor authentication, and mobile banking app safety. In the final session, Assignment-II was presented by Dr. Kamaldeep, focusing on case studies involving tech abuse and financial frauds in India. Participants were encouraged to analyze and present their interpretations of real incidents, enhancing their investigative skills.

Day 4: Thursday, 08th May 2025

- **Session I (10:00 – 11:30 AM)**
  Topic: Cyber Crimes: Case Studies and Relevant Laws
  Speaker: Dr. Suniti Dutt

- **Session II (11:45 AM – 1:15 PM)**
  Topic: Protecting Your Social Media Accounts
  Speaker: Er. Chetanjit Singh

- **Session III (2:30 – 4:00 PM)**
  Activity: Assignment-III: Case Study – Cyber Psychology & Cyber Laws
  Moderator: Dr. Kamaldeep

The fourth day explored legal and social dimensions of cybersecurity. Dr. Suniti Dutt conducted a comprehensive session on "Cyber Crimes: Case Studies and Relevant Laws," educating participants on legal frameworks, including IT Act provisions and landmark cybercrime cases. Following this, Er. Chetanjit Singh provided insights into "Protecting Your Social Media Accounts," discussing privacy settings, account security tips, and threats like social engineering. The final session, Assignment-III led by Dr. Kamaldeep, required participants to reflect on cyber psychology and relevant legal interventions, helping them understand how behavior and law intersect in cyberspace. The sessions helped bridge technical and humanistic perspectives in cybersecurity.

Day 5: Friday, 09th May 2025

- **Session I (10:00 – 11:30 AM)**
  Topic: Data Privacy and Secured Communications
  Speaker: Dr. Gaurav Kumar

- **Session II (11:45 AM – 1:15 PM)**
  Topic: Android Smartphone Fingerprinting using Open-Source Tools
  Speaker: Dr. Gaurav Kumar

- **Session III (2:30 – 4:00 PM)**
  Event: Valediction and Course Feedback
  Coordinators: Dr. Rakesh Wats / Dr. Kamaldeep

The final day of the program featured advanced topics and the closing ceremony. Dr. Gaurav Kumar conducted two sessions—first on "Data Privacy and Secured

Communications," which covered encryption, privacy principles, and secure communication protocols, and then on "Android Smartphone Fingerprinting using Open-Source Tools," where he demonstrated forensic techniques to identify devices based on their digital signatures. The concluding session was the valediction and course feedback led by Dr. Rakesh Wats and Dr. Kamaldeep. Participants shared their experiences, and feedback was collected to improve future iterations of the program. The day wrapped up the course with a forward-looking view on securing digital interactions in everyday life.

Dr. Sonika Malik

FDP Coordinator

Dr. Prabhjot Kaur

HOD, IT Department