

FDP : CBS-07 – Cybersecurity Intelligence & Ethical Hacking Practices
4th May 2026 - 15th May 2026

| Date & Day | Session 1 (3:30 PM - 5:30 PM) | | Session 2 (5:45 PM – 7:45 PM) | 8:00- 8:30PM |
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| | 3:30 PM - 4:00 PM | 4:00 PM - 5:30 PM | | |
| 04-05-26,Monday | Inauguration | Networking Essentials: OSI & TCP/IP, IPv4/IPv6, DNS, DHCP, common ports/protocols Dr. Dinesh Tyagi | Hacking Lab Setup: VMware/VirtualBox, attacker & victim VM configuration Dr. Vikas Kumar | |
| 05-05-26, Tuesday | Operating Systems: Linux CLI (Kali/Parrot OS), Windows internals, Bash/Python basics Dr. Debasis Das | | Cybersecurity Fundamentals: CIA Triad, threat vs risk, NIST & ISO 27001 frameworks Dr. Ramesh Babu Battula | |
| 06-05-26, Wednesday | Footprinting & Reconnaissance: Passive vs active recon, Google Dorking, WHOIS lookups Dr. Ramesh Babu Battula | | OSINT Tools: Maltego, Shodan, Recon-ng – finding leaked data & exposed services Dr. Manish Kumar | |
| 07-05-26, Thursday | Scanning Networks: Advanced Nmap techniques, host discovery, OS fingerprinting. Dr. Sidharth Sharma | | Vulnerability Assessment: using scanners Nessus & OpenVAS to identify unpatched software and scoring them via CVSS Dr. Ramesh Babu Battula | |
| 08-05-26, Friday | System Hacking: Brute-force & dictionary attacks, password cracking tools, Privilege Escalation on Linux & Windows; clearing tracks & maintaining stealth Suraj Shirolikar (Tentative) | | Web Application Hacking: OWASP Top 10 – SQL Injection, XSS, Broken Access Control, SSRF using tools: Burp Suite Dr. Vikas Kumar /Dr. Ramesh Babu Battula | |
| 09-05-26, Saturday | No Session | | | |
| 10-05-26, Sunday | No Session | | | |
| 11-05-26, Monday | Malware Analysis: Trojans, Ransomware, RATs – static & dynamic analysis techniques of Dr. Vikas Kumar | | Wireless & IoT Security: Cracking WPA2/WPA3, rogue APs, smart device vulnerabilities Dr. Ramesh Babu Battula | |
| 12-05-26, Tuesday | Threat Intelligence: IOCs vs IOAs, mapping adversary behaviour with MITRE ATT&CK framework mapping Dr. Manish Kumar (RV University, Bangalore) | | SOC Operations: Monitoring traffic using SIEM tools – Splunk, ELK Stack, Azure Sentinel – & incident triage Dr. Debasis Das | |
| 13-05-26, Wednesday | AI in Cybersecurity: Detecting AI-generated phishing, adversarial attacks on ML models using AI for Automated threat hunting Dr. Ramesh Babu Battula | | Cloud Security: Securing AWS/Azure/GCP – S3 bucket misconfigs, IAM privilege escalation Prof. Emmanuel Subhakar Pilli | |
| 14-05-26, Thursday | Generative AI and Cybersecurity: Risks, Trust, and Resilience Prof. Aparajita Ojha | | Private AI or False Sense of Security? Rethinking Cybersecurity in the Era of Offline LLMs Dr. Mahipal Jadeja | |
| 15-05-26, Friday | Generative AI and Cybersecurity: Risks, Trust, and Resilience Mr. Suraj Shirolika | | Privacy and security aspects for LLMs Dr. Ramesh Babu Battula | valedictory |