# Lecture Plan - Advanced IT Skills (B23-SEC-301)

| S. No. | Lecture No. | Topic | Subtopics |
|--------|-------------|-------|-----------|
| 1 | L1 | Website Address & URL | Concept of URL, Domain Name, Examples |
| 2 | L2 | Introduction to IP Address | IPv4 & IPv6, Role of ISP |
| 3 | L3 | Internet Protocol & ISP | ISP services, broadband, USB tethering |
| 4 | L4 | Modes of Connecting Internet | Hotspot, Wi-Fi, LAN Cable |
| 5 | L5 | Identifying IP/MAC/IMEI | Practical identification on devices |
| 6 | L6 | Downloading & Printing Web Pages | Methods, Tools |
| 7 | L7 | Introduction to Blogs & E-Commerce | Basics, Applications |
| 8 | L8 | tiquettes & Overview of e-Governance | Rules, Importance |
| 9 | L9 | e-Governance Services | Railway, Passport, eHospital, Mobile Services |
| 10 | L10 | Digital Financial Tools – Overview | Need & Importance |
| 11 | L11 | OTP & QR Code | Working, Applications |
| 12 | L12 | UPI & AEPS | Aadhaar Enabled Payment System |
| 13 | L13 | USSD & eWallet | Features & Uses |
| 14 | L14 | PoS Machines | Working, Applications |
| 15 | L15 | Internet Banking & NEFT | Concepts & Process |
| 16 | L16 | RTGS & IMPS | Working, Use cases |
| 17 | L17 | Online Bill Payment | Utilities, Examples |
| 18 | L18 | Cyber Security – Basics | Definition, Scope |
| 19 | L19 | Cyberspace & Architecture | Regulation, Concepts |
| 20 | L20 | sues & Challenges in Cyber Security | Threats overview |
| 21 | L21 | Classification of Cybercrimes | Types, Categories |
| 22 | L22 | Cybercrimes Targeting Devices | Mobiles, Computers |
| 23 | L23 | bercrime Against Women & Children | Issues, Protection |
| 24 | L24 | Financial Frauds & Social Engineering | Phishing, Scams |
| 25 | L25 | Malware & Ransomware Attacks | Types, Case Studies |
| 26 | L26 | Zero-Day & Zero-Click Attacks | Explanation & Examples |
| 27 | L27 | Reporting & Mitigation | Organizations, Guidelines |
| 28 | L28 | Legal Perspective | IT Act 2000, Amendments |
| 29 | L29 | Organizations in Cyber Security | Indian & Global Bodies |
| 30 | L30 | Introduction to Future Skills | Concept, Importance |
| 31 | L31 | Internet of Things (IoT) | Applications, Use Cases |
| 32 | L32 | Big Data Analytics | Concept, Real-world uses |
| 33 | L33 | Cloud Computing | Features, Models |
| 34 | L34 | Artificial Intelligence, Blockchain | Concepts, Applications |