

IIBF IT Security Syllabus 2025

The Indian Institute of Banking and Finance (IIBF) has released the updated IT Security Certification Exam Syllabus for 2025. This comprehensive syllabus is structured to help banking professionals strengthen their understanding of cybersecurity principles, regulatory frameworks, and IT risk management practices essential in today's digital banking environment. The syllabus covers critical areas such as information security, IT governance, cyber threats, secure infrastructure, business continuity, and regulatory compliance.

Module A: IT Security Overview

This module introduces candidates to the fundamental concepts of information security, organizational risk management, IT governance, and security policy frameworks. It sets the foundation for understanding how information is protected and managed in an organizational environment.

Unit	Topics Covered
Unit 1	Introduction to Information Security – Data vs Information, Information Classification, Physical & Logical Security, Goals, Types, and Services of Information Security.
Unit 2	Corporate IT Security Policies – Importance, Legal Needs, Policy Features, Awareness Initiatives, and Framing Methodologies.
Unit 3	Organisational Security & Risk Management – Public Sector Frameworks, Risk Metrics, RTI Act 2005, Downstream Liability, and Types of Security Attacks.
Unit 4	Security Governance – Governance Concepts, Frameworks, Public Sector and Banking Applications, Compliance and Monitoring.
Unit 5	Physical & Environmental Security – Physical Security Equipment, Intrusion Prevention Systems (IPSs), and Environmental Threat Controls.
Unit 6	Hardware Security – Protection of Network Devices such as Routers, Switches, and Hubs.
Unit 7	Software & Operational Security – Software Controls in Cloud, Banking, IT, Telecom, BPO/KPO sectors; User-Level Controls.
Unit 8	Security Standards & Best Practices – ISO 27001, COBIT, CIA Triad (Confidentiality, Integrity, Availability), and Types of Confidentialities.

Module B: IT Security Controls

This module emphasizes security controls and preventive measures for hardware, software, networks, and physical environments. It also addresses how to build secure software systems and maintain them effectively.

Unit	Topics Covered
Unit 9	Asset Classification & Controls – Control of Information, Hardware & Software Assets, OSI Model, Traditional Protection Techniques.
Unit 10	Physical & Environmental Security Controls – Concepts, Environmental Management, Lighting, and e-Waste Management.
Unit 11	Software Security Controls – Operating System (OS) Security, Windows, Databases, and Application-Level Security for Mobile/Internet Banking.
Unit 12	Network Controls – VLANs, IDS, Firewalls, Unified Threat Management, Protocols, and Information Management Security.
Unit 13	Software Development & Maintenance Controls – Security Concepts in Software Engineering, Cloud Computing, and Big Data Security.

Module C: IT Security Threats

Module C focuses on understanding various IT security threats and the strategies to prevent and manage them. It also includes business continuity planning and the ability to maintain IT systems under fault conditions.

Unit	Topics Covered
Unit 14	Security Threats Overview – Cyber Espionage, Terrorism, and the nature of cyber threats.
Unit 15	Prevention & Detection of Software Attacks – Types of Malware, Virus Control Mechanisms, and Detection Tools.
Unit 16	Incident Management – Response Strategies, Action Plans, Running Processes, and Staff Awareness.
Unit 17	Fault Tolerant Systems – High Availability (HA), Concepts of Service-Oriented Architecture (SOA).
Unit 18	Business Continuity & Disaster Recovery – Disaster Phases (I, II, III), Backup Strategies, and Downtime Planning.

Module D: IS Audit and Regulatory Compliance

This final module explores the auditing of information systems, regulatory guidelines by Indian financial authorities, and governance standards. It is crucial for understanding the legal and compliance frameworks governing IT systems in banks.

Unit	Topics Covered
Unit 19	Information Systems Audit – History, Roles of Internal/External Auditors, Audit Methodologies, COBIT Framework, and Reporting.
Unit 20	Regulatory Mechanism in Indian Banks – RBI Guidelines, Gopalakrishna Committee, SEBI, TRAI, IRDAI, and Related Legal Enactments.

