

**Call for Book Chapters/Research Papers for Edited Books**  
*To be published with ISBN under IIP International publishers, USA and India*

## **Fundamentals of Cyber Security**



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Acceptance notification:03/12/2024  
Last date for registration:09/01/2025

**IIP Edited Book Series**

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## Call for Chapters

# Fundamentals of Cyber Security

### Aims and Scope:

The aim and scope of a book titled Fundamentals of Cyber Security would generally cover foundational aspects of cybersecurity, providing readers with essential knowledge and skills to understand, mitigate, and defend against cyber threats. Below is a breakdown of what such a book might aim to achieve and the scope it could cover:

### List of Topics

#### 1. Basic Concepts of Cybersecurity:

Introduction to cybersecurity principles.  
Cybersecurity terminology and key concepts (e.g., threat, vulnerability, risk).  
Overview of cyber threats (e.g., malware, phishing, denial-of-service attacks).

#### 2. Types of Cyber Threats and Attacks:

Different types of cyberattacks (e.g., social engineering, ransomware, APTs).  
Case studies on significant cyber incidents.

#### 3. Cybersecurity Frameworks and Standards:

Overview of international standards (e.g., ISO 27001, NIST).  
Legal and regulatory aspects of cybersecurity (GDPR, HIPAA, etc.).

#### 4. Network Security:

Fundamentals of securing computer networks.  
Firewalls, intrusion detection/prevention systems (IDS/IPS).  
VPNs, secure communication protocols (SSL/TLS).

#### 5. Data Security and Encryption:

Basics of encryption techniques (symmetric and asymmetric encryption).  
Hashing, digital signatures, and certificates.  
Securing sensitive data at rest and in transit.

#### 6. Access Control and Authentication:

Multi-factor authentication (MFA).  
Role-based access control (RBAC) and identity management.

#### 7. Security in Web and Mobile Applications:

Common vulnerabilities (e.g., SQL injection, XSS).  
Best practices for securing web and mobile applications.

#### 8. Risk Management and Incident Response:

Risk assessment, mitigation, and management.  
Incident response planning and execution.  
Role of cybersecurity professionals in managing incidents.

#### 9. Ethical Hacking and Penetration Testing:

Introduction to ethical hacking concepts.  
Penetration testing techniques and tools.  
Legal and ethical considerations in cybersecurity testing.

#### 10. Emerging Trends in Cybersecurity:

Cybersecurity in cloud computing, IoT, and artificial intelligence.  
The impact of evolving technologies on security practices.

### Author Benefits:

1. Selected chapters (not all) will be indexed in RSquareL and other indexing platforms including Amazon, Google Books etc.
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