

# Raj Global Technical Institute

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## Information Booklet cum Syllabus Cyber Security Course

**Course Duration**

**3 – 6 Months**



January 2026

## Course Overview

The **Cyber Security Course** at **Raj Global Technical Institute** is designed to provide students with the knowledge and skills required to protect computer systems, networks, and data from cyber threats.

With the increasing use of digital technologies, cyber security has become one of the most important fields in the IT industry. This course introduces students to the fundamentals of cyber security, ethical hacking basics, network security, and data protection techniques.

Students will gain both **theoretical understanding and practical training** to identify security threats and safeguard digital systems.

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## Eligibility

- Minimum Qualification: **10+2 or equivalent**
  - Basic computer knowledge
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## Course Objectives

- To understand cyber security fundamentals
  - To identify cyber threats and attacks
  - To learn techniques for protecting computer systems
  - To develop awareness about safe internet practices
  - To introduce ethical hacking and security tools
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## Cyber Security Course Syllabus

### Module 1: Introduction to Cyber Security

- Introduction to Cyber Security
  - Importance of Cyber Security
  - Types of Cyber Threats
  - Cyber Crime and Cyber Laws
  - Cyber Security Awareness
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## **Module 2: Computer and Network Security Basics**

- Basics of Computer Networks
  - Types of Networks
  - Network Security Concepts
  - Firewalls and Antivirus
  - Security Protocols
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## **Module 3: Cyber Attacks and Threats**

- Malware
  - Virus and Worms
  - Trojans
  - Phishing Attacks
  - Ransomware
  - Social Engineering Attacks
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## **Module 4: Ethical Hacking Fundamentals**

- Introduction to Ethical Hacking
  - Types of Hackers
  - Foot printing and Reconnaissance
  - Password Cracking Concepts
  - Ethical Hacking Tools
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## **Module 5: Network Security**

- Network Vulnerabilities
  - Wireless Network Security
  - Securing Wi-Fi Networks
  - Intrusion Detection Systems
  - Network Monitoring
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## **Module 6: Web Security**

- Introduction to Web Security
  - Website Vulnerabilities
  - SQL Injection Concepts
  - Cross-Site Scripting (XSS)
  - Web Application Security
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## **Module 7: Data Security and Privacy**

- Data Protection Methods
  - Encryption Basics
  - Password Security
  - Backup and Recovery
  - Digital Privacy
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## **Module 8: Cyber Laws and Ethics**

- Cyber Laws in India
  - IT Act Overview
  - Digital Rights and Responsibilities
  - Ethical Use of Technology
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## **Practical Training**

Students will receive **hands-on practical training** in:

- Basic network security setup
  - Identifying phishing emails
  - Password security techniques
  - System vulnerability scanning
  - Cyber security tools demonstration
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## **Certification**

After successful completion of the course, students will receive a **Cyber Security Certificate** from **Raj Global Technical Institute**.

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### **Career Opportunities**

After completing this course, students can work as:

- Cyber Security Assistant
- IT Security Support
- Network Security Technician
- Cyber Security Analyst (Entry Level)
- Security Awareness Trainer