

**Shri Guru Buddhiswami
Mahavidyalaya,
Purna (Jn.) Dist. Parbhani 431 511**



Certificate course in Cyber Security

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Certificate course in Cyber Security is one of the best computer-related courses after 10th, which gives students an opportunity to start their career in the highly growing computer and internet sector. Often, we also call this course a Certificate in IT, here the full form of IT is Information Technology.

Certificate course in Cyber Security is a duodecimal level course, in which basic level is taught about computer and internet.

What is Cyber Security?

The technique of protecting internet-connected systems such as computers, servers, mobile devices, electronic systems, networks, and data from malicious attacks is known as cybersecurity. We can divide cybersecurity into two parts one is cyber, and the other is security. Cyber refers to the technology that includes systems, networks, programs, and data. And security is concerned with the protection of systems, networks, applications, and information. In some cases, it is also called electronic information security **or** information technology security.

Types of Cyber Security

All organization's assets are the combinations of a variety of different systems. These systems have a strong cybersecurity



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posture that requires coordinated efforts across all of its systems. Therefore, we can categorize cybersecurity in the following sub-domains:

- Network Security:
- Application Security:
- Information or Data Security:
- Identity management
- Operational Security
- Mobile Security
- Cloud Security
- Disaster Recovery and Business Continuity Planning
- User Education

Importance of Cyber Security

In today's digital world, one cannot ignore cybersecurity. One single security breach can lead to exposing the personal information of millions of people. These breaches have a strong financial impact on the companies and also loss of the trust of customers. Hence, cyber security is very essential to protect businesses and individuals from spammers and cyber criminals.

Cyber Security Goals:

The objective of Cybersecurity is to protect information from being stolen, compromised or attacked. Cybersecurity can be measured by at least one of three goals-

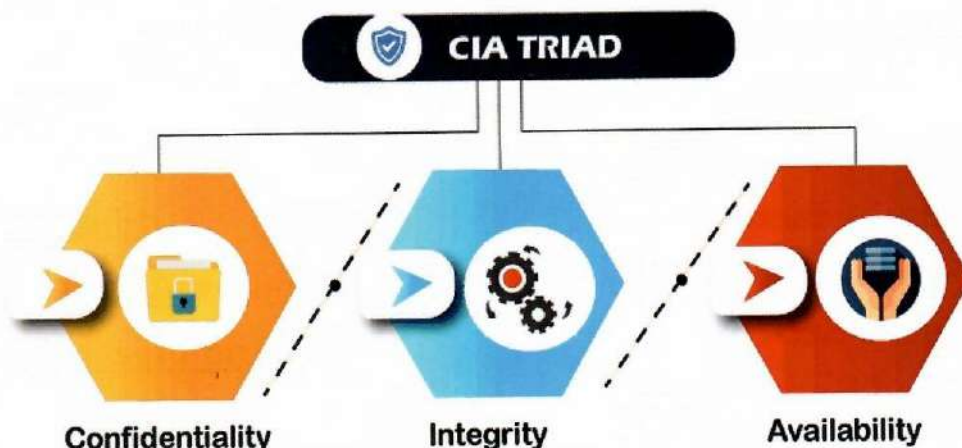
1. Protect the confidentiality of data.
2. Preserve the integrity of data.
3. Promote the availability of data for authorized users.

These goals form the confidentiality, integrity, availability (CIA) triad, the basis of all security programs. The CIA triad is a security model that is designed to guide policies for information security within the premises of an organization or company. This model is also referred to as the AIC (Availability, Integrity, and



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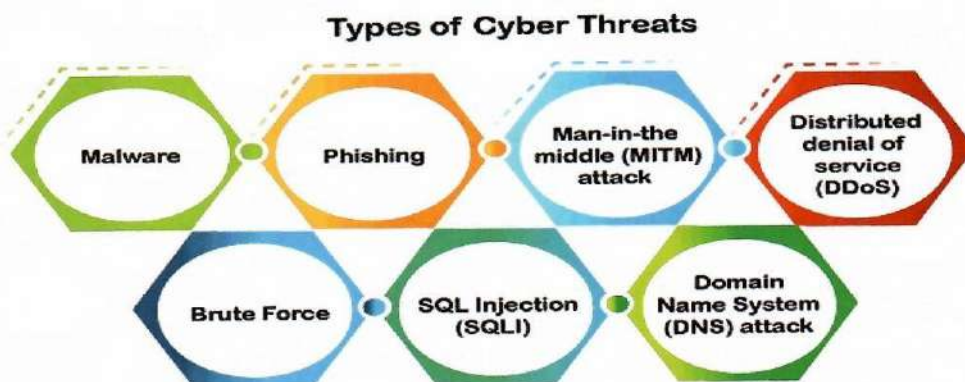
Confidentiality) triad to avoid the confusion with the Central Intelligence Agency. The elements of the triad are considered the three most crucial components of security.



- ✚ Confidentiality
- ✚ Integrity
- ✚ Availability

Types of Cyber Security Threats

A threat in cybersecurity is a malicious activity by an individual or organization to corrupt or steal data, gain access to a network, or disrupts digital life in general. The cyber community defines the following threats available today:



- Malware
- Virus
- Spyware
- Trojans
- Ransomware



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- **Worms**
- **Adware**
- **Botnets**

Benefits of Cyber Security

The following are the benefits of implementing and maintaining cybersecurity:

- ✚ Cyberattacks and data breach protection for businesses.
- ✚ Data and network security are both protected.
- ✚ Unauthorized user access is avoided.
- ✚ After a breach, there is a faster recovery time.
- ✚ End-user and endpoint device protection.
- ✚ Regulatory adherence.
- ✚ Continuity of operations.
- ✚ Developers, partners, consumers, stakeholders, and workers have more faith in the company's reputation and trust.

Who should join this course?

Students who have an interest in "Security" the computer field and especially those who enjoy solving problems related to technology, those students who fascinate technical questions, those students should do this course.

Also, students who want to make their future in the fastest growing IT sector, can also join this Certificate course at less cost and can imagine a golden future.

Following are the key points and Highlights of the Cyber Security Certificate Course-

Course Level Entry	12 th (Arts/Commerce/Science) Pass
course Duration	4 Months (40hrs)
Eligibility	12th from any Recognized Board
Age	Minimum of 18 years



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Admission Process	Direct Admission at College Level
Course Fee	Nil (Freeware)
Exam Type	Pen and Paper/ Online
Starting Average Salary	1 lakh to 3 lakhs per year
Job profile	IT Instructor, IT Technician, web designer
Placement Opportunities	Private Company/Government/IT/Banking/Support Staff for IT.
Achievement	Security Implementor/ Cyber Security Director, Cyber Security Engineer

What do students learn during this course?

Cyber Security programmes teach you how to protect computer operating systems, networks, and data from cyber-attacks. You'll learn how to monitor systems and mitigate threats when they happen. Because IT Security is still a relatively young discipline, universities and colleges are still figuring out which is the best approach for their degrees. Study programmes and curricula in Cyber Security are different. Some might focus more on programming, while others place more emphasis on digital forensics, security policies, or broad aspects of Cyber Security.

Eligibility

Talking about the eligibility for the Certificate course in Cyber Security, any student who has passed 12th class can join for this course.

Course duration

Certificate course in Cyber Security is of 4 Months duration.

Admission procedure

Direct Admission process for College Students

Tuition fees

Tuition fee for Certificate course in Cyber Security is free



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Career options

Talking about career options after Certificate course in Cyber Security, students have many job opportunities, as well as if the student wants to go for higher education, then the process of admission is very easy for him too.

After doing this course, students can get jobs in different profiles like.

- ✚ Network Security Engineer. ...
- ✚ Cyber Security Analyst. ...
- ✚ Security Architect. ...
- ✚ Cyber Security Manager. ...
- ✚ Chief Information Security Officer (CISO) ...
- ✚ Information Security Manager. ...
- ✚ Cybersecurity Engineer. ...
- ✚ Application Security Engineer.

Salary

When any student thinks of admission in any course, then one question that all the students want to know is that what salary they can get after this course. Minimum Salary is up to 3LPA.

Syllabus

The syllabus should incorporate all the essential elements of cyber security, The Cyber Security syllabus includes introductory knowledge, students about everything related to cybersecurity and how it should be handled by them.

Syllabus is given below in detail-

Theory	Practical's
Introduction to Security & Fundamentals of Cybersecurity	➤ Practical's on Security Concepts and Web Based applications & And
Database Security Principals	
Introduction to Cyber Security Laws	
Web Application Security	



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Network Security Aspects	Web Tools ➤ Hacking Practical's
IT Security Compliance & Hacking Concepts	
Data Communications & Networking Security Concepts	

Summary

Cyber security can be described as the collective methods, technologies, and processes to help protect the confidentiality, integrity, and availability of computer systems, networks and data, against cyber-attacks or unauthorized access.



Thanks.....

Shri Guru Buddhiswami Mahavidyalaya, Purna (Jn.) Dist. Parbhani
One Day Workshop & Hands on Training Programme
(CS and IT & Cyber Security)

Organized by
 Department of Computer Science
 1st March 2023 (ICT Hall)
Attendance Sheet

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