Ascend Adamas certificate course in Cybersecurity

- ☑ **6 Months Course**
- ☑ **120 Hrs of Classes**
- ☑ **Live, Faculty-led, Online Teaching**

Ascend ®
LEARNING

ADAMAS
UNIVERSITY
KOLKATA
PURSUE EXCELLENCE

> " I dream of a Digital India where Cybersecurity becomes an integral part of our national security. The world is so worried about Cybersecurity. One click can change a lot of things "

Mr. Narendra Modi
Prime Minister

> " Prevention of cyber crime is a priority of the Modi government and it is committed to creating a cyber-success society by making the internet secure for every citizen. "
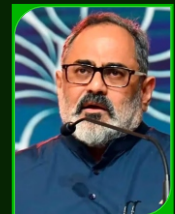
Mr. Amit Shah
Home Minister

> " The Union government is committed to promoting domestic, Made in India technology for Cybersecurity. "

Mr. Rajeev Chandrasekhar
MoS Electronics & Information Technology

> " India is the world's largest IT Talent pool, with new technologies emerging everyday, it is imperative that the existing workforce is reskilled / upskilled. Indian Youth that would be entering the workforce needs to be trained in these future skills. We at Ascend Learning bring high quality future - ready courses at affordable prices. "

Mr. K. Sreenivasa Rao
Managing Director
Awe-Inspiring Products &Services Pvt. Ltd.

About US:

Ascend Learning is an education initiative of Awe-Inspiring Products and Services Pvt Ltd. Ascend Learning offers a bouquet of IT and non IT courses to its students who are looking for high quality education. Ascend Learning partnered with Adamas University and RICE Education to provide students with the best course content, job-oriented skills and by using unmatched teaching infrastructure.

What is **Cybersecurity?**

Cybersecurity refers to the practice of protecting computer systems, networks, devices, and data from unauthorized access, cyber attacks, theft, damage, or other forms of security breaches. It encompasses a wide range of measures, technologies, processes, and best practices designed to safeguard digital assets and ensure the confidentiality, integrity, and availability of information in cyberspace.

Benefits of learning **Cybersecurity**

Learning Cybersecurity offers numerous benefits for individuals interested in the field, as well as for organizations and society as a whole, one of the main being career opportunities. With the increasing frequency and sophistication of cyber attacks, there is a growing demand for Cybersecurity professionals across industries.

Roles available to a certified Cybersecurity professional

Certified Cybersecurity professionals can pursue various roles within organizations across industries, depending on their expertise, experience, and interests. Some of these are Cybersecurity Analyst, Security Engineer, Security Architect, Penetration Tester (Ethical Hacker), Incident Responder, Security Consultant, Security Awareness and Training Specialist and so on.

Companies Hiring Cybersecurity experts

Many companies across various industries hire Cybersecurity experts to protect their digital assets, safeguard sensitive information, and defend against cyber threats. As cyber threats continue to evolve, organizations place a high value on Cybersecurity expertise to protect their digital assets and operations. Individuals with Cybersecurity skills are in high demand, which can provide greater job security and stability in the rapidly changing job market.

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Additionally, consider obtaining certifications or participating in relevant open-source projects to enhance your qualifications and stand out to potential employers.
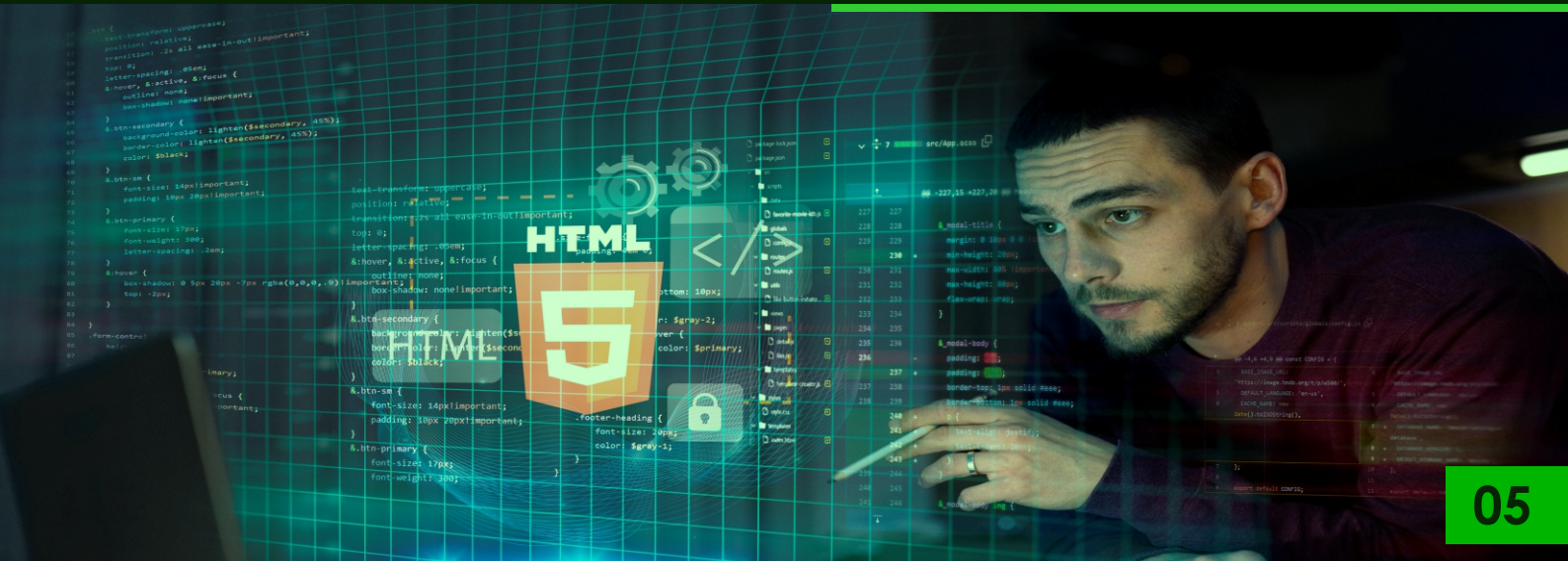
Who should take **the course**

Cybersecurity course is suitable for individuals who are new to the field of Cybersecurity or have limited experience with Cybersecurity concepts, principles, and practices. Some specific groups of people are Students, Career Changers, IT Professionals, Small Business Owners and Entrepreneurs, Employees, Non-technical Professionals.
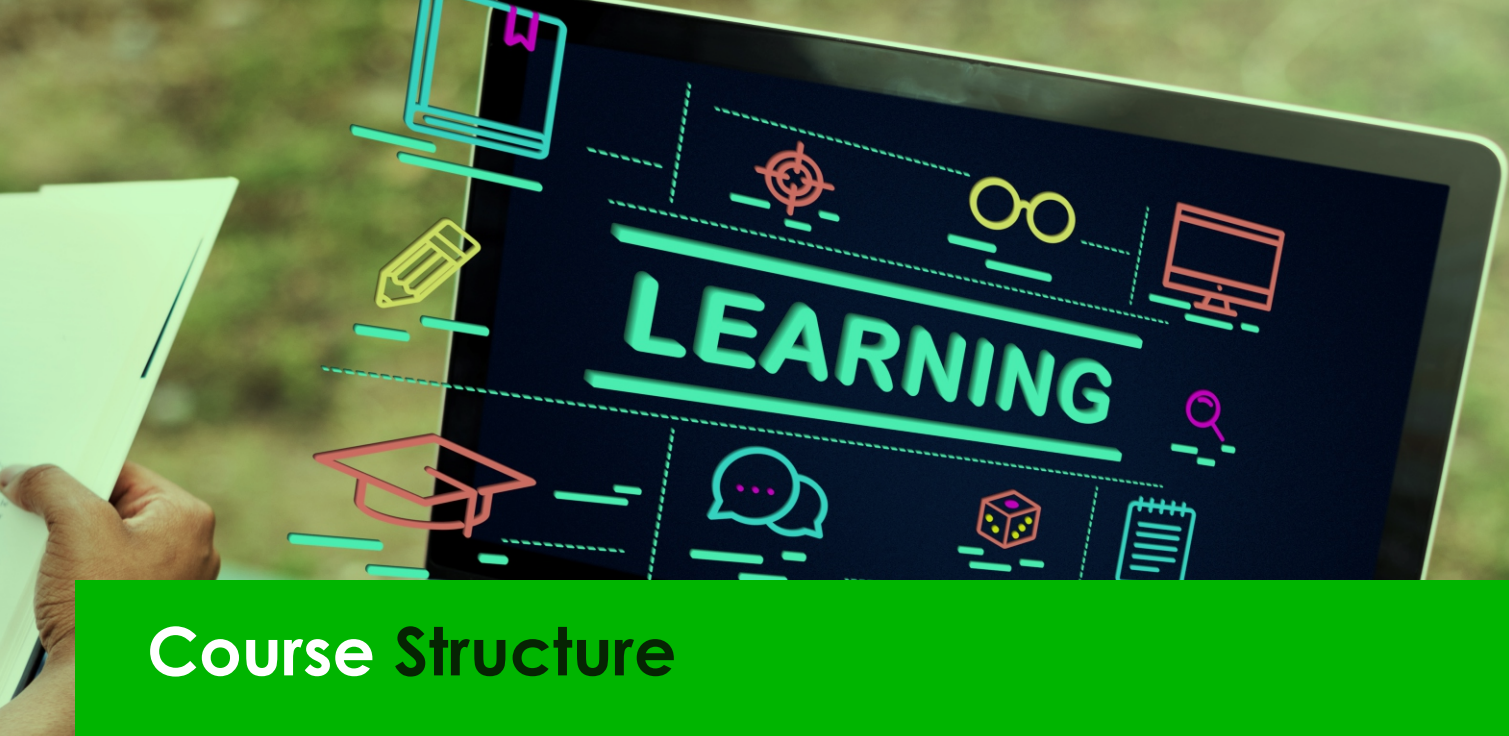
Course requirements

Basic understanding of computers and networking. Familiarity with IT concepts. Proficiency in basic IT skills, understanding of security principles, critical thinking and problem-solving skills.

Why choose **Ascend Learning for Cybersecurity Course**

Comprehensive and Industry-Relevant Curriculum designed by experts and taught by highly qualified professors from Adamas University. Value proposition and certification preparation for industry-recognized certifications, such as CompTIA Security+, Certified Information Systems Security Professional (CISSP), Certified Ethical Hacker (CEH), or other relevant certifications, enhancing their credentials and career prospects.

Course Structure

- 6 Months Course
- 120 Hrs of Classes
- Live, Faculty-Led, Online Teaching
- Classes by University Faculty
- Course Materials
- Project Work Included

" Certificate issued by Adamas University on succesful completion of Online Test after finishing the course "

Skills you learn

- Comprehensive coverage of Cybersecurity fundamentals, including threats, attack vectors, and security tools.

- Practical understanding of computing basics, internet protocols, and network security principles.

- In-depth exploration of malware types, social engineering attacks, and secure computing practices.

- Emphasis on basic security measures such as password management, encryption, and data protection.

- Hands-on exercises, real-world case studies, and practical projects to apply Cybersecurity concepts.

Course Modules

01 Introduction to Cybersecurity ⏱10h
- What is cybersecurity?
- Importance of Cybersecurity for individuals and organizations
- Cyber threats and attack vectors
- Basic Security terminologies
- Ethics and legal aspects of Cybersecurity
- Introduction to Cybersecurity tools and resources

02 Fundamentals of Computing ⏱10h
- Introduction to computers and operating systems
- File systems and data storage
- Understanding software and applications
- Basics of computer hardware
- Identifying vulnerabilities in software
- Secure computing practices for beginners

03 Internet and Network Basics ⏱10h
- Introduction to the Internet
- Understanding IP addresses and domain names
- Network protocols and communication
- Wired and wireless networks
- Internet safety and privacy
- Secure web browsing and online behavior

04 Introduction to Malware and Cyber Attacks ⏱10h
- Types of malware (viruses, worms, Trojans, ransomware)
- Social engineering attacks (phishing, spear-phishing)
- Identifying and avoiding suspicious links and emails
- Case studies of Cyber attacks
- Safe email and online communication practices

05 Basic Security Measures ⏱10h
- Password security and management
- Two-factor authentication (2FA)
- Secure data backups
- Antivirus and anti-malware tools
- Software and system updates
- Creating a secure online presence

06 Privacy and Social Media Security ⏱10h
- Online privacy and data protection
- Risks of oversharing on social media
- Privacy settings on popular social platforms
- Safe social media practices
- Digital identity and reputation management

07 Introduction to Encryption ⏱10h
- What is encryption?
- Basics of cryptography
- Encryption algorithms and keys
- Secure communication and data protection
- End-to-end encryption
- Hands-on exercises with encryption tools

08 Cybersecurity Policies and Best Practices ⏱10h
- Importance of Cybersecurity policies
- Password policies and user access controls
- Incident response and reporting
- Security awareness and training
- Safe online shopping and banking practices
- Security standards and compliance

09 Introduction to Network Security ⏱10h
- Network security concepts
- Firewalls and intrusion detection systems
- Secure wireless networks
- Secure remote access (VPN)
- Identifying and reporting network anomalies
- Network security tools and practices

10 Securing Personal Devices ⏱10h
- Mobile device security (smartphones, tablets)
- Securing personal computers and laptops
- IoT device security
- Physical Security of devices
- Safe downloading and software installation
- Securing home networks

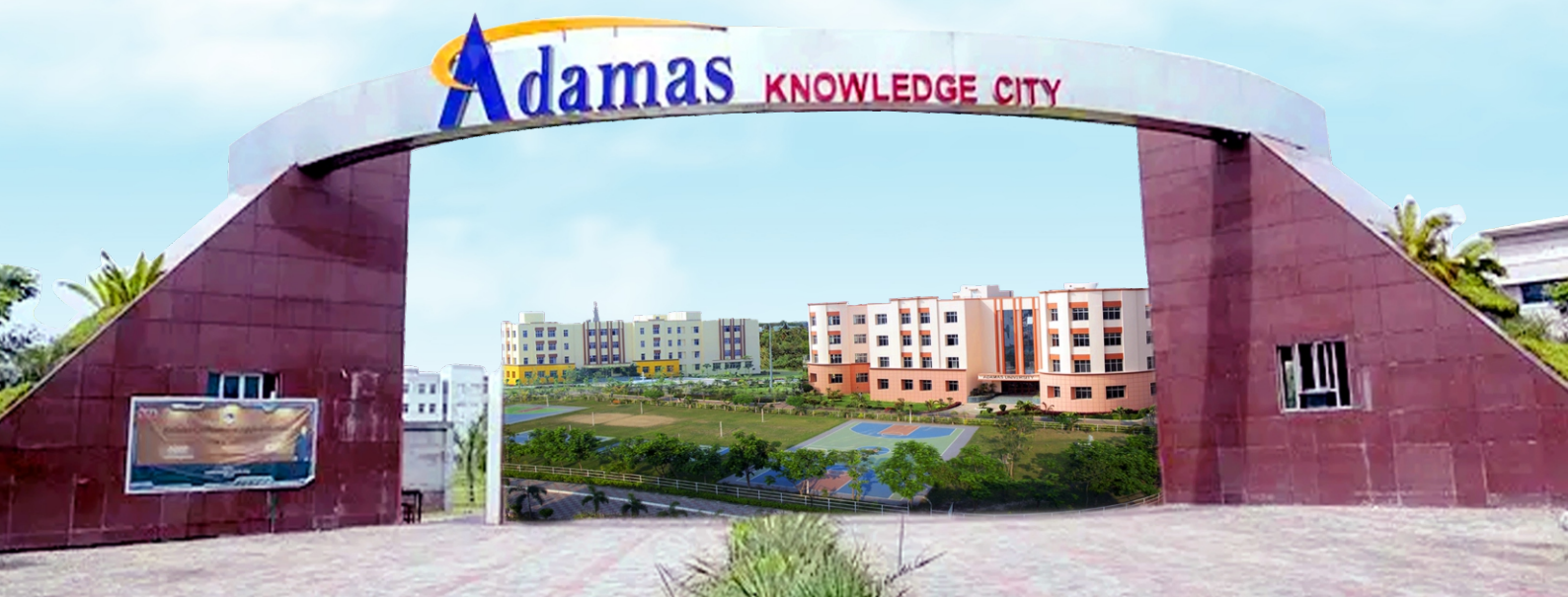## 11 Introduction to Cyber Hygiene and Safe Online Behavior ⏱10h
- Safe email and messaging practices
- Avoiding scams and online fraud
- Protecting against identity theft
- Understanding and reporting Cyberbullying
- Responsible online behavior
- Cybersecurity ethics

12 Cybersecurity Projects and Practical Application ⏱10h
- Real-world scenarios and hands-on exercises
- Analyzing and responding to cybersecurity incidents
- Creating and testing cybersecurity policies
- Cybersecurity awareness campaigns
- Final project: Developing a personal Cybersecurity plan

About Adamas Univ & CLL initiative

Adamas University, with a sprawling green campus extending over 120 acres, nestled in Barasat (13 kms away from the Subash Chandra Bose International Airport Kolkata), and in its 7th year of operation, aspires to impart finest quality education to the young minds of West Bengal, with an already established high quality research facility and a powerful team of teachers. The University has many international initiatives collaborating with the industries and educational institutes to facilitate projects, research and student exchange programs. Currently, in its 7th year, the campus has 5000+ current students and more than 2000 resident students & faculty members. The University has been established with the vision of providing quality education to students to help them become professionally competent as well as academically knowledgeable under the 10 Schools of Studies.Adamas University is established with the aim to provide a solution to all educational needs under one roof. It aims to create an environment for students that will not just arm them with the right kind of knowledge, but also develop them as well-rounded members of society. The university's Centre for Life Long Learning previously known as Centre for Professional Studies (CPS), Career Development Cell (CDC) and its schools have adopted number of capacity development and skill enhancement initiatives to prepare an industry-ready human resources. Ascend Learning partnered with Adamas University and their Center for Lifelong Learning and had developed and launched various short term courses that are affordable to students from Tier 2 aand Tier 3 towns.

Awe-Inspiring Products & Services Pvt. Ltd

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