



Aegis

SCHOOL OF CYBER SECURITY

Post Graduate Program in  
Cyber Security  
in association with IBM



“The emerging need of Techno Management & Cross Functional skills will be mandate for Future Leadership in the organizations. Leadership in Organizations will urge for creation of synergy between Technological Developments with new age managerial skills.”

**Dr. Abhijit Gangopadhyay**  
 Dean, Aegis  
 Professor, XLRI  
 Founding Dean, IIM Indore  
 Former Dean, TISS

The old models of producing general managers and functional specialists are no longer adequate in today's fast changing environment. Organizations need leaders who are able to harness the power of innovation and lead them through a rebirth; they need 'Renaissance Leaders'. "How do we create a Renaissance Leader? Are they born or are they made?" Aegis was founded to answer these questions in 2002 with support from Bharti, Airtel and to develop cross functional technology leaders. In 2015 Aegis and IBM collaborated to launch, India's first Post Graduate Program (PGP) in Data Science, Business Analytics and Big Data and again in 2017 IBM joined hands with Aegis to launch PGP in Cyber Security. These programs are jointly certified and delivered by Aegis in association with IBM. IBM has set up high end Business Analytics, Cloud Computing and Cyber Security Lab at Campus.



Aegis was started in 2002 with the support of "Airtel Bharti" for developing cross functional telecom leaders.



In 2017 NVIDIA and Aegis partnered to develop skills for applied AI and Deep Learning in India.

	<b>IBM Business Analytics Lab</b> Initiative of the Career Education Program <small>In collaboration with: Aegis School of Business and Telecommunication</small>	
	<b>IBM Cyber Security Lab</b> Initiative of the Career Education Program <small>In collaboration with: Aegis School of Cyber Security</small>	
	<b>IBM Software Lab for Cloud Computing</b> Initiative of the Career Education Program <small>In collaboration with: Aegis School of Business &amp; School of Telecommunication</small>	

The course content will be dynamic. IBM with its technology of Watson, Cognitive, Big Data technologies behind it and our analytics skills will look forward to support this course in the best way we can by pulling in along with our Research and Development resources

**Vaidyanathan R Iyer**  
 Business Unit Executive  
 IBM Security-Asia Pacific  
 IBM

mUni Campus is offering Aegis world class digital infra, MOOC platform, learning management system, learning app and online course delivery platform on cloud. This enables Aegis to improve learning outcome and offer high quality live interactive courses online worldwide. Check Aegis MOOC courses at [www.mUniversity.mobi/Aegis](http://www.mUniversity.mobi/Aegis)

Aegis initiated Data Science Congress, an independent platform for sharing knowledge among data scientist, practitioners, users, tech vendors, academia and Government for developing eco-system to bring India at the forefront of world map and for growth of disruptive technologies like Data Science, Analytics, Big Data, Block Chain, AI, Machine Learning, Cyber Security etc.

### Accepting Scores



# “CYBERCRIME IS THE GREATEST THREAT TO EVERY COMPANY IN THE WORLD.”

**Gini Rometty, IBM’S Chairman, President & CEO**

And she was right. During the next five years, cybercrime might become the greatest threat to every person, place, and thing.

With the vast amount of sensitive data now stored in the digital universe - everything from social security numbers to financial records and matters of national security - it’s critical that we secure and protect it from malicious interests. For vital computer networks and electronic infrastructures, cyber security experts stands as the last and most effective line of defence against such attacks.

## Post Graduate Program In Cyber Security In Association With IBM

Looking at the huge gap in skills for Cyber Security, Aegis has launched Post Graduate Program (PGP) in Cyber Security in association with IBM. This PGP in Cyber Security is an interdisciplinary program that prepares students with both the academic and practical training to be competitive in the ever-changing technical landscape of Cyber Security.

There has never been a better time to specialize your skills. Elevate your technical abilities in booming areas like cloud security, wireless network security, and mobile device hacking.

The cyber security field is expected to generate many new jobs over the next decade as industry and government continue to emphasize safe data and information system. As a graduate of the Cyber Security Post Graduate Program you’ll be ready for a career as a developer of security products, security application programmer, security analyst, and penetration tester. You can also pursue work as a security researcher, vulnerability analyst or security architect or continue your studies toward a doctorate.

### Program Highlights

- Post Graduate Program in Cyber Security in association with IBM
- Final PGP certification by IBM
- Program will be taught by IBM experts and top faculties
- Exposure to IBM Cyber Security Lab and software
- Career Management Center to facilitate you with career opportunities
- Globally accepted credit structure
- program duration 11 months
- On campus Full Time Program is 11 months
- Executive Weekend Program is 11 months duration both on campus as well as Online

### Certification from IBM



## Program Delivery Models

### Full Time PGP On-Campus Classroom

**Total Program:** 36 Credit Units  
9 months of Class room training  
(3 terms each of 3 months) + 2  
months of Internships  
**Program Duration:** 11 months

### Executive Weekend PGP Live Online Interactive

**Total Program:** 36 Credit Units  
**Core courses:** 30 Credit Units  
**Units Elective courses:**  
6 Credit Units  
**Program Duration:** 11 months

### Weekend Executive PGP On-Campus Classroom Model

**Total Program:** 36 Credit Units  
**Core courses:** 30 Credit Units  
**Units Elective courses:**  
6 Credit Units  
**Program Duration:** 11 months

*MOU signing ceremony by Aegis - IBM*



# Biggest Ransomware attack in history

The attack began on Friday, 12 May 2017, and within a day was reported to have infected more than 230,000 computers in over 150 countries.

\* According to Forbes magazine, the Cyber Security job market is expected to grow to more than \$170 billion in just four years, making it not only one of the fastest growing employment segments in IT, but one that also comes with six-figure salaries, security and plenty of room for upward

## Last Year, U.S. News & Report

Ranked Cyber Security eighth on a list of the 100 best jobs.

Cyber crime damage costs to hit \$6 trillion annually by 2021.

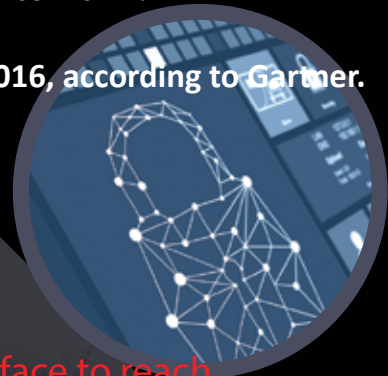
The Ponemon Institute reported that the average cost of a cyber breach has reached \$3.8 million.

Cyber Security spending to exceed \$1 trillion from 2017 to 2021.

The rising tide of cyber crime has pushed Cyber Security spending on products and services to more than \$80 billion in 2016, according to Gartner.

Unfilled Cyber Security Jobs will reach 1.5 million by 2019.

This year, analysts and the media concluded there is a severe shortage of Cyber Security talent globally. There were 1 million Cyber Security Job openings in 2016, and that is expected to reach



Human attack surface to reach 4 billion people by 2020.

As the world goes digital, humans have moved ahead of machines as the top target for Cyber Criminals. Microsoft estimates that by 2020, 4 billion people will be online twice the number that are online now. The hackers smell blood now, not silicon.

Up to 200 billion IoT devices will need securing by 2020.

Intel claims that the number of connected devices could surge to 200 billion by 2020, up from 15 billion in 2015. Cisco and Microsoft have both predicted 50 billion devices will be connected to the Internet by 2020. Regardless of which estimate proves right, the bottom line is that the digital attack surface will grow massively over the next five years.

**CISCO**  
**REPORTED THAT**  
**CURRENTLY**  
**MORE THAN**  
**1,000,000 AVAILABLE**  
**CYBER SECURITY JOBS**  
**IN THE U.S ALONE**  
**AND 6,000,000**  
**GLOBALY. ”**

# Career Opportunity In Cyber Security

Are you a tech-pro and look forward to something exciting every day in your job? If yes, then this is a great time to consider a new career opportunity, the cyber security professional. According to CIO magazine, the cyber security experts are among the most sought after professionals in the technical sector; with demand for workers in that field out spacing other IT jobs by a good margin.

Those who aspire to reach the highest level of cyber security and hope to have a lasting career in the profession should strongly consider having a master degree. It will surely give students additional technical and theoretical skills and depending on the expertise can offer the leadership, managerial and business skills required in the high-level position. Those interested in a career in cyber security may pursue work as a security administrator, cyber policy analyst, and information security analyst or software developer.

In today's world, there is a high demand for the cyber security professionals. It is estimated that the demand of a cybersecurity professional is supposed to cross 6 million globally by 2019. This industry has too many reasons to choose it as a profession some of which are:

## Top Jobs in Market

- Security Engineer
- Security Analyst
- Information Security Analyst
- Information Security Engineer
- Network Security Engineer
- Information Technology Security Analyst
- Information Security Manager
- Information Assurance Engineer
- Senior IT Auditor
- Security Administrator
- Security Architect
- Security Software Developer
- Cryptographer/Cryptologist.
- Cryptanalyst
- Chief Information Security Officer.
- Security Consultant/Specialist

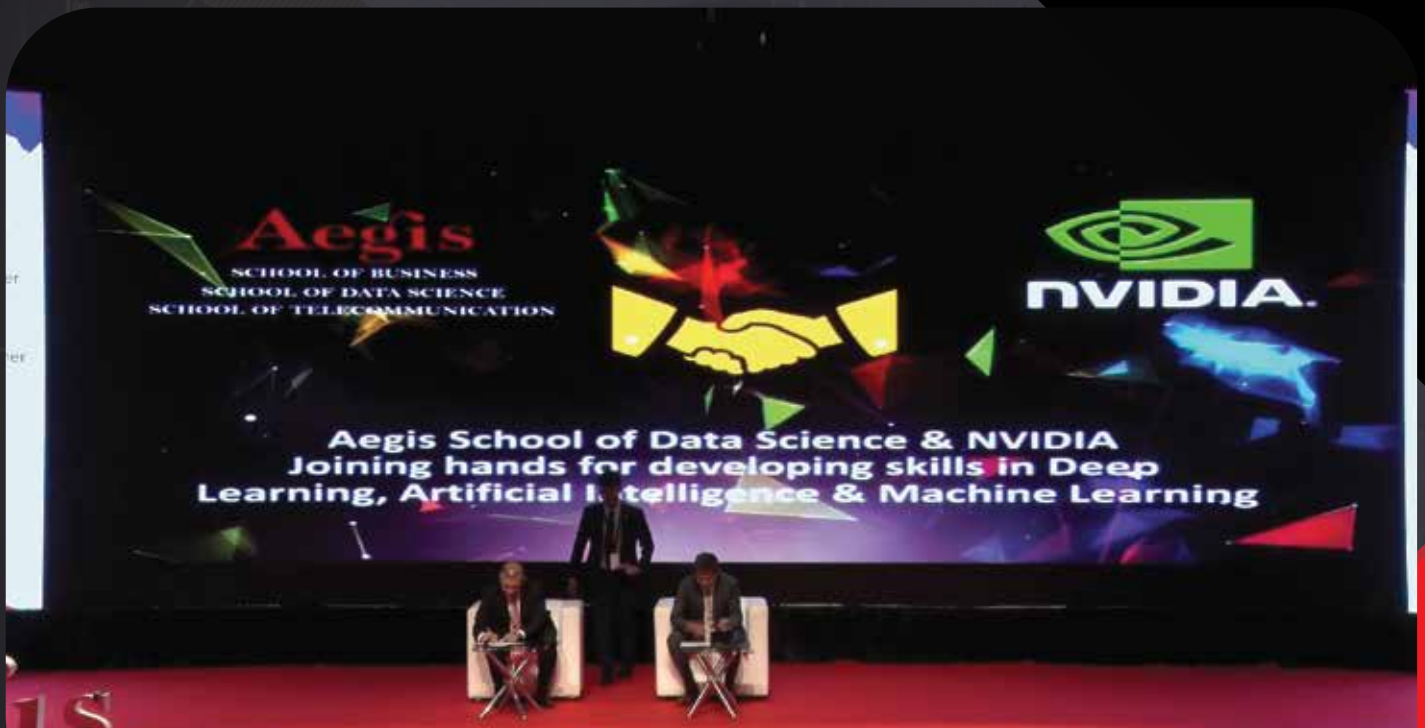
## In Diverse Industries like

- E commerce
- Medical & Healthcare
- Banking & Finance
- Energy & Utilities
- Government bodies and Associations
- Manufacturing
- Wholesale & Retail Trading
- IT and Software
- Telecommunications, Mobile & Media





**Aegis -IBM Signed MoU for Post Graduate Program in Cyber Security**



**Aegis and NVIDIA signed MoU for Deep Learning & Applied AI**



# BUILD YOUR OWN CURRICULUM !

## CORE COURSES



Machine Learning for Cyber Security



Ethical Hacking



Fundamental Course in Cloud Security & Application Security by IBM



Foundation Course in Security Identity Management by IBM



Foundation Course in Security Access Management by IBM



Security Engineering and Management



### Application Security

Application Security



### NETWORK SECURITY

Mobile Networks | Web Applications | Cloud | Servers

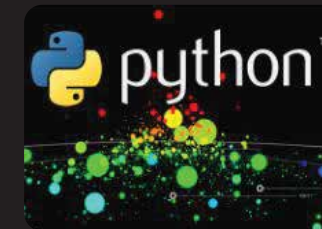
Network Security



Security and Privacy



Design and Analysis of Algorithm



Python for Data Science



### Capstone Project™

Capstone Project

## ELECTIVE COURSES



IBM Watson for Cognitive Cyber Security



Cyber Laws



Applied Cryptography



Digital Forensics



Penetration Testing and Vulnerability Analysis



Cloud Security



Pattern Recognition



Cyber Laws

# Aegis

SCHOOL OF CYBER SECURITY

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## Office of Admission Processing

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