

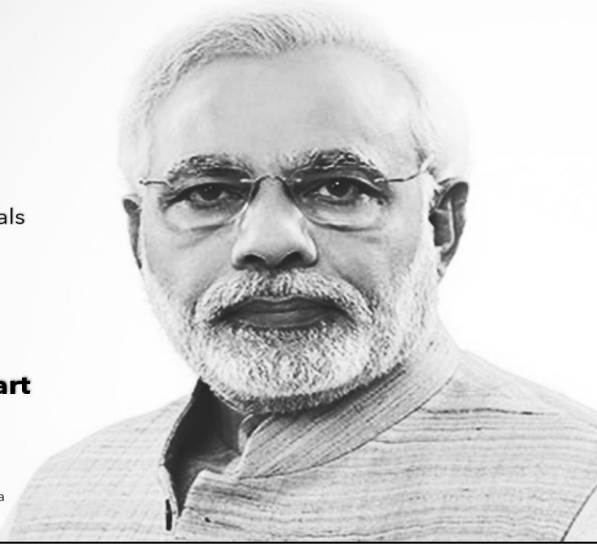
Knowledge + Awareness + Physical Hands on Learning + Real Environment Curriculum

CAREER IN CYBER SECURITY

According to Indian Cyber Security Policy, India requires 5 lakh Cyber Security Professionals while we have only 65 thousand

“I dream of a Digital India where Cyber Security becomes an **integral part of our National Security.**”

- Narendra Modi
Prime Minister of India



CYBER SECURITY INTRODUCTION AND CURRENT SCENARIO

- ❖ While physical security protects facilities and objects in the real world, cybersecurity protects information systems and data. Cybersecurity is the practice of safeguarding servers, computers, electronic systems, networks, mobile devices, and data from malicious electronic attacks.
- ❖ As the world becomes increasingly reliant on the Internet and computer systems and the next generation of smart Internet of Things enabled devices with access to wireless networks via Bluetooth and Wi-Fi come online, the average level of every organization's cyber security risk and cybercrime is on the rise.
- ❖ India is ranked third in terms of the highest number of internet users in the world after the USA and China. According to Symantec Corp, an online security firm, India is ranked among the top five countries to be affected by cybercrime.

CHILDREN ARE FACING A "CYBER-PANDEMIC" (8-12 YEARS OLD)

17%

EXPERIENCED RISKY CONTACT
(OFFLINE MEETING WITH STRANGERS OR SEXUAL CONTACT)

39%

EXPERIENCED REPUTATIONAL RISKS

29%

EXPOSED TO RISKY CONTENT
(VIOLENT OR SEXUAL)

45%

AFFECTED BY CYBER-BULLYING

13%

AT RISK FOR GAMING DISORDER

7%

AT RISK FOR SOCIAL MEDIA DISORDER

60% OF 8-12 YEAR-OLD CHILDREN ONLINE ARE EXPOSED TO CYBER RISKS TODAY

28%

EXPERIENCED CYBER THREATS

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INDIA FACES SHORTAGE OF CYBERSECURITY TALENT

- NASSCOM reports that despite having the largest IT talent pool in the world, India simply lacks skilled cyber security professionals. In fact, the need for experienced professionals is so high that companies are willing to pay a premium salary to top talent.



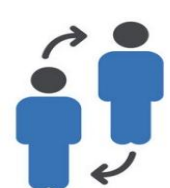
60%

of Indian firms have unfulfilled Cyber Security Positions



42%

Companies say that their Cyber Security Teams are understaffed



65%

Companies report difficulties in retention of Cyber Security talent

EMPOWERING THE FUTURE:

Incorporating Cybersecurity Into School Curriculum

Should cyber security lessons be taught in schools?

- Internet inevitably has become of paramount importance. We all feel the need for the internet in all walks of life. In the field of education, the internet is extremely important and is consistently growing as well. Especially after the pandemic hit us, the usage of the internet became an exclusive part of our lives and in matters of education, it became a saviour. Life had changed entirely during the pandemic as well as post-pandemic.
- Children were solely reliant on the internet to learn from school also. It is a matter of worry for parents as well, to try and keep track of children's daily activities and check that they do not fall prey to any internet scams, etc.
- Hence, learning about cyber security becomes important, for children to be aware of internet dangers as well. If we talk about students in classes 9th and 10th, teenagers are most **vulnerable** to being victims of cyber-attacks which can be harassing for them, and their academic growth as well.

Reasons for vulnerabilities :

- Lack of awareness.
- Increased usage of the internet.
- Lack of technical knowledge.
- No proper guidance against cyber crimes.

Reasons to include cyber security in school curriculum :

- **Cyber security domain carves the way for a demanding career:** Cyber security is a crucial and growing job field. The demand for experts is rising daily, with companies like Dell, Cognizant, and Accenture hiring, and opportunities also in national crime agencies and security departments
- **Handsome remunerations:** Cyber security jobs offer lucrative salaries, with a wide range of pay. Freelancers also find abundant opportunities, catering to startups and online businesses needing protection from cyber threats. High pay is a major attraction in this field.
- **Personal growth and professional growth exist parallelly:** Professional development is deeply connected to personal growth. Learning new skills enhances both professional and personal capabilities, making individuals more productive. Teaching cyber security in schools promotes vocational education and meets the high demand for professionals in a field with ample growth opportunities.

OUR OFFERINGS

HYBRID PLATFORM



❖ Complete Physical Laboratory with real Industrial Hardware and Software with Structured Curriculum Courseware.

❖ Textbooks/Lab guide, Instructor guide materials.

❖ Hands-On Experience, Installation, Training

❖ Access Hands-On environment for Real Time Laboratory Practical's.

❖ Conduct Full Comprehensive Faculty Workshop for setting up of COE.

❖ Industry expert as Mentors and Advisors and real case studies of Cyber attacks, Prevention and Protection.

❖ Course Objectives aligned to Certifications.

Cyber Security Program for School Students with real laboratory Hands-On Lab skill platform

BENEFITS	HANDS-ON LABS
Hands-On Experience on real industrial environment (Active Learning by Doing)	Hands-On training involves active learning , which is a more engaging and effective way to learn than passive learning (e.g., reading or listening to lectures). Active learning involves doing things like setting up networks, configuring firewalls, and detecting and responding to security threats . This type of learning can help you better retain the knowledge and skills needed to pass any exam.
Personalized Feedback and Support (Physical presence of Instructors)	Hands-On lab provides students with immediate feedback on their progress, allowing them to identify areas where they need to improve . Additionally, students have access to expert instructors who can provide guidance and support throughout the learning process.
Real-world Experience and Scenarios	The Lab is designed to simulate real-world scenarios , allowing students to practice using the tools and technologies they will encounter in their future careers. This gives students a competitive advantage in the job market.
Motivation due to Collaboration and Engagement	Students can collaborate with each other , share ideas, and work together to solve problems which can help them stay motivated and engaged in the learning process.

MARCRAFT-AIPL BENEFITS
With Hands-On Learning , average retention rate for hands-on learning is 75% , compared to only 5% for lectures
Hands-on learning experience significantly improves problem-solving skills and students who engage in hands-on activities develop critical thinking, analytical reasoning, and troubleshooting abilities
Industry aligned curriculum learning makes students apply theoretical knowledge to real-world scenarios, bridging the gap between academia and industry – 91% of employers prefer candidates with real-world experience and 83% of cybersecurity job postings require hands-on experience
With Marcraft’s structured learning that prepares students for certifications, students to develop practical skills which are in high demand
The Marcraft way of learning involves collaborative activities, fostering teamwork and communication skills - 36% of employers prioritize teamwork and collaboration skills when hiring cybersecurity professionals