



Project eSaksham

A Joint Initiative of Ministry of Education, AICTE, and CyberPeace Foundation

JOINTLY ORGANISED BY



Ministry of Education
Government of India



CyberPeace
Foundation

SUPPORTED BY



PROBLEM STATEMENT



The global demand for cyber security experts reached six million in 2019. According to NASSCOM, India had a shortage of one million cyber security professionals in 2020. The labour crunch for the same is expected to hit approximately 3.5 million unfilled jobs by 2021.

Technological advancements and the internet have had a tremendously positive impact on innovation and opened doors for unlimited opportunities. But at the same time, it has also exposed humankind to unprecedented challenges. This new virtual space has become a breeding ground for criminals to jeopardize national interests and security of the citizens owing to anonymity guaranteed to users. The lack of digital literacy, often results in people becoming easy targets of crimes, especially harassment, abuse & frauds.

GOALS & OBJECTIVES



Project eSaksham, launched on 17th May 2021, aims to bridge the gap in digital literacy and cyber security skills, through capacity building and outreach activities.

- To build a community where :
 - the internet strengthens, rather than become a liability or weakness;
 - the youth are skilled and industry ready;
 - resources are used to create a secure ecosystem where we can translate research into market ready products through a plug and play model of research and innovation.



OBJECTIVES



**Train 5 LAKH
Students and Educators**



**Create 25,000
CYBERPEACE CORPS VOLUNTEERS
and
500 CyberPeace Fellows**



**Set up 50
CYBERPEACE CLUBS**



Over the course of 1 year, we aim to :



- Strengthen cybersecurity skills by working with the community to explain processes and technology
- Fill the skill gap in the cyber security space in India
- Make masses aware of :
 - Data Privacy and Digital Footprint
 - CyberEthics - Responsible Online Behaviour
 - Cyber Crime and Reporting
- Ease the process of reporting instances of online harassment and frauds
- Mentor and convert skills into start-ups through incubation
- Create a pool of 25,000 CyberPeaceKeepers
- Set up 50 CyberPeace Clubs across the Country
- Create 500 Industry ready CyberPeace Fellows



The major outcomes of this joint initiative include :



- Enabling the youth to understand the importance of engaging responsibly in cyberspace
- Incubating innovative ideas and startups and create hubs for innovation and invention
- Assessing the vulnerabilities in online spaces and identifying strategies
- Making Cyber Range and Simulation Labs accessible

TRAINING AT FOUR LEVELS



Level 1 Training

- 2-hour long online workshop on basic concepts of online safety and cybersecurity, netiquette and introduction to new technologies
- Training will be for Students and Educators in batches of 6000 – 10000 participants
- A total of 5,00,000 participants will be trained through Level 1 training workshops

Level 2 Training

- A 4-day long training session for 25,000 participants, shortlisted through an online assessment
- Training will focus on enhancing CyberSecurity Skills of the participants in batches of 1000
- An assessment Test will be conducted at the end of each session
- The participants will be enrolled in the CyberPeace Corps Volunteer program and will work on ongoing as well as independent projects

Level 3 Training

- 5,000 participants will be shortlisted for the Level 3 through an assessment test
- 5-Day long customised training sessions will be conducted for the participants suited to their areas of interest
- This level training will be focusing on specialized verticals as IoT Security, Cloud Security, Blockchain, Infrastructure Security, etc.

Level 4 Training

- 500 participants will be shortlisted for this level through a series of assessments, and also a psychometric test.
- A 30-Day intensive training session will be conducted depending on their skillset for the participants
- The participants will get an opportunity to work on Capstone Projects with different partners from Government, Academia, Industry, LEAs etc.
- They will be connected with mentors and subject matter experts from the industry
- Access to labs, cyber ranges etc. will be provided
- On successful completion, participants will be awarded a certificate by AICTE & CyberPeace Foundation

Other Activities :



Online safety competitions for the participants, encouraging the positive use of online space will also be conducted throughout the course of the initiative.



GLOBAL CYBERPEACE CHALLENGE



RESEARCH CONCLAVE



SYMPOSIUM



eRAKSHA COMPETITION

About Clubs:

CyberPeace clubs are the community interfacing endpoints for executing collaborative initiatives with multiple stakeholders. The clubs will be nurtured eminent and experienced personalities from the advisory board & team from CPF. The clubs will engage in various activities outlined below. The activities are not exhaustive and we will add more based on the capabilities and enthusiasm from the members. It's a bottom-up approach of influencing and contributing towards effective policies, initiative, research etc. to build a peaceful and stable cyber space.



The club members would be participating or contributing to some of the below mentioned Internet Governance and Cyber Security working Groups through their activities

- Cyber Law
- Child and Women online safety
- Inclusion and Capacity Building - Specially abled
- Community Networks
- Entrepreneurship
- Critical Information Infrastructure
- Cyber Crime, Forensics and Law Enforcement
- IoT Security
- Trust on Internet (Blockchains)
- Innovations
- Ransomware & Malware Research



PARTNERS



Ministry of Education
Government of India

सत्यमेव जयते

Ministry of Education : The Ministry of Education (MoE), formerly the Ministry of Human Resource Development (1985–2020), is a Ministry of Government of India responsible for the implementation of the National Policy on Education. The Ministry is further divided into two departments: the Department of School Education and Literacy, which deals with primary, secondary and higher secondary education, adult education and literacy, and the Department of Higher Education, which deals with university level education, technical education, scholarships, etc.



AICTE : The All-India Council for Technical Education (AICTE) is a statutory body, and a national-level council for technical education, under the Department of Higher Education. Established in November 1945 first as an advisory body and later in 1987 given statutory status by an Act of Parliament, AICTE is responsible for proper planning and coordinated development of the technical education and management education system in India.



CyberPeace Foundation : CyberPeace Foundation [CPF] is an award-winning non-partisan civil society organization, think tank of cyber security and policy experts with the vision of pioneering CyberPeace Initiatives to build collective resiliency against cybercrimes & global threats of cyber warfare. CPF is involved in Policy Advocacy, Research and Training related to all aspects of CyberPeace and Cyber Security

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Public Information Registry : Based in Reston, Virginia, Public Interest Registry is a not-for-profit organization created by the Internet Society (ISOC), originally to manage the .ORG domain. They operate and manage the .ORG domain, and are also very active participants with the Internet Corporation for Assigned Names and Numbers (ICANN), and within the global domain community.



AIU : Association of Indian Universities (AIU), one of the premier apex higher education institutions of the Country established in 1925, is a research-based policy advice institution to the Government of India in the field of Higher Education, Sports & Culture and internationalisation. Since its inception, it has been playing a vital role in shaping Indian higher education. Most importantly, AIU is vested with the power for according equivalence to Degrees/Qualifications offered by the universities across the world with those offered in India. Being an apex institution it constitutes an integral part of all major decision-making committees and commissions in the country and facilitates cooperation and coordination among Indian universities and liaise between the universities and the Government (Central as well as the State Governments) and also national and International bodies of higher education in other countries in the matters of common interest. As a National Sports Promotion Organization (NSPO) it promotes sports among Member-Universities.



Autobot Infosec : Autobot Infosec is an India based global cyber security services firm providing a full range of data security services. The firm works with corporations and Governments in areas of Homeland / National Security, Enterprise Security; including policy and strategy development, product / solution based professional services.



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About CyberPeace Foundation (CPF)

CyberPeace Foundation (CPF) is an award-winning non-partisan civil society organization, think tank of cybersecurity and policy experts with the vision of pioneering Cyber Peace Initiatives to build collective resilience against cybercrimes and global threats of cyber warfare. CPF is involved in Policy Advocacy, Research and Training related to all aspects of Cyber Peace and Cyber Security.

Key areas of CyberPeace Foundation work are Technology governance, policy review and advocacy, capacity and capability creation and building through partnerships with various government organizations, academic institutions and civil society entities.

CyberPeace Foundation's work towards Internet Governance and Cyber Security and is aligned towards UN's 5 Sustainable Development Goals [SDGs]:

- Achieve gender equality and empower all women and girl
- Develop industry, innovation, and infrastructure
- Make cities inclusive, safe, resilient and sustainable.
- Bring Peace, Justice and Strong Institutions.
- Revitalize the global partnership for sustainable development.

OUR PRIMARY INITIATIVES

1. **CyberPeace Corps** - CyberPeace Corps is envisioned to be a coalition of citizens, volunteers, experts and volunteers that become experts who come together as working groups for the cause of cyber peace across the world. The world needs it today for the internet to be peaceful, trustworthy and safe enough for its users. Unfortunately, various shortcomings in technology, law, awareness and international cooperation have been widening the gap altogether and there is no answer to the growing cyber threats to nations today. Collective resilience and action are somethings that are needed to originate from our communities in order to sustainably evolve and transition into netizens (NCC, NDRF, OLX, UNV etc).

www.cyberpeacecorps.in

2. **e-Raksha competition** - An initiative by CyberPeace Foundation in collaboration with NCERT, Ministry of Human Resource and Development, Government of India.

<http://bweducation.businessworld.in/article/CyberPeace-Foundation-And-NCPCR-NCERT-eRaksha-Competition-2020-Aim-To-Educate-Youth-On-Cyber-Awareness-As-Internet-Usage-Surges-During-Pandemic/09-07-2020-295800/>
<https://www.republicworld.com/india-news/education/cbse-invites-students-to-participate-in-e-raksha-competition-2020.html>

3. **Global CyberPeace Challenge** in Collaboration with Ministry of Electronics and Information Technology (MeitY), Government of India.

<https://www.newindianexpress.com/nation/2017/oct/07/government-to-hold-global-challenge-to-build-cyber-taskforce-for-india-1668336.html>

4. **CCTNS Hackathon and Cyber Challenge** in collaboration with NCRB, Ministry of Home Affairs, Government of India

<https://www.aninews.in/news/business/launch-of-cctns-hackathon-and-cyber-challenge20200210162617/>
<https://yourstory.com/2020/02/robust-solutions-cybercrime-cctns-hackathon>

5. **Cyberpeace Awareness Months** - In collaboration with the state Police Departments namely Telangana, Andhra Pradesh, Assam, Mizoram, Delhi, Punjab police (3 months) and Agra and Rajasthan Police currently ensuring netizens stay CyberAware and CyberSafe.

6. **Digital Shakti Project** - Currently in Phase 3, this project aims at empowering women and children to stay safe, stay aware in the online world, in collaboration with the National Commission of Women (NCW) and Facebook across India

7. **eRaksha Trainings** and Certifications with Google India and Data Security Council of India for the Law Enforcement Agencies.

8. **CyberPeace-CBSE Cybersecurity Handbook**

<https://timesofindia.indiatimes.com/home/education/news/all-you-need-to-know-about-cbse-cybersecurity-handbook-for-students/articleshow/76069611.cms>

9. **CyberPeace COE** - Community-Driven Collaborative Framework for Research and Development for Academia and Allied Institutions. Our Vision is to create a bed/cluster of research in academic and allied institutions consisting of participation from academia, industry, government and civil society organizations to nurture and support ideas and solutions and develop innovations in cyberspace through research. The aim is to address and solve the challenges and problems in cyberspace, thereby making cyberspace stable and safe for everyone.

10. **CyberPeace Research** - Several primary research projects on child sexual abuse material on WhatsApp, Telegram, Bigo Live etc.

<https://tech.economictimes.indiatimes.com/news/mobile/whatsapp-still-being-used-for-child-abuse-videos/69016185>

<https://economictimes.indiatimes.com/tech/internet/bigo-live-a-chinese-app-captures-indian-imagination-with-lascivious-content/articleshow/68623592.cms?from=mdr>

<https://www.thenewsminute.com/article/whatsapp-telegram-may-have-child-abuse-videos-too-cyber-security-specialist-101442>

11. **COVID19 Quick Reaction Team | COVID19 Research**

- Detection of Fraudulent UPI Handles
- Unsafe Website with Domain Name formulated with COVID-19/Corona Keyword
- Detecting Cyber Attack Patterns using Honeypots
- Detection of Fraudulent Mobile Application

<https://www.thenewsminute.com/article/fake-upi-accounts-created-defraud-those-contributing-pm-relief-fund-121607>

<https://www.telegraphindia.com/states/jharkhand/beware-of-the-coronavirus-trap/cid/1760920>

12. **The Cyber Diplomat initiative | Cyber Diplomacy** - The Cyber Diplomat is an initiative to present good quality research and analysis on Cyber issues around the globe. The vision for this initiative is "Diplomacy for CyberPeace". In a world where cyberwar is common, we wish to make cyber peace through cyber diplomacy. CyberPeace Foundation in collaboration with the Ostrom Workshop had designed [CyberPeace alliances](#) for information sharing and a move towards safer cyberspace.

<https://ostromworkshop.indiana.edu/research/internet-cybersecurity/index.html>

https://medium.com/@cyber_peace_alliance

13. **Sri Sri School of CyberPeace** -

<https://timesofindia.indiatimes.com/home/education/news/sri-sri-university-opens-school-of-cyber-peace-research-centres/articleshow/81193096.cms>

<https://orissadiary.com/sri-sri-ravi-shankar-launched-sri-sri-school-of-cyber-peace-along-with-4-other-research-centers-in-ssu/>

What Is Project eSaksham?

It is a digital training programme focusing on developing skills in the cybersecurity domain, exclusively for college students and teachers. The Ministry of Education, All India Council for Technical Education (AICTE) CyberPeace Foundation (CPF) have jointly launched Project eSaksham.

Who can attend these sessions?

The sessions are open for working or non-working individuals, educators and students from any course/ semester/ year.

The eSaksham training will be conducted at four levels.

Level 1 will be a two-hour online workshop on the basic concepts of navigating cyberspace, including cybersecurity, netiquette, and introduction to new technologies. A total of five lakh participants will be trained in level 1.

Level 2 of the training will be a four-day workshop for 25,000 participants, who will be shortlisted through an assessment test at the end of level 1. The participants will also be enrolled in the CyberPeace Corps volunteer programme and will work on live independent projects, focusing on the interest areas of the participants.

Level 3, a total of 5000 participants will be shortlisted from level 2, who will undergo week-long training sessions customized on latest technologies as per the industry requirements. This level of training will include IoT security, cloud security, blockchain, and infrastructure security.

The final level, level 4 will be for 500 CyberPeace Fellows, who will be shortlisted from level 3 through a series of assessments. Intensive training for 30 days will be conducted in collaboration with the government, academia, and the industry partners. They will also be connected to mentors and will have access to laboratories and cyber ranges, to further develop their skills. On successful completion of the training, shall make the participants eligible for a course completion certificate by AICTE and CyberPeace Foundation and industry ready.

Some of the Commons FAQ's

Is there any registration?

Anyone can use the link given in the calendar at <https://esaksham.cyberpeace.org/> to register themselves for the training session planned for the date that suits you. As soon as you register, the link for the Zoom webinar along with the password will be sent to your registered email address. The course content of each day will be same. So, one session is sufficient to attend for level 1 training.

Can I share the registration link with my friends?

Yes. You can also share the calendar at <https://esaksham.cyberpeace.org/>.

What will we learn about?

In the Level 1 training workshops we will cover the basics of cybersecurity and online safety, including topics like:

- Data Privacy and Digital Footprint
- CyberEthics and Responsible Behaviour
- Digital Wellbeing
- Cybercrime and Reporting

Are the workshops paid?

The Level 1 & level 2 training sessions are conducted absolutely free of charge. You can join any session as per your convenience after registering. The Presentation in level 1 is the same all the days till we cover 5 lakh. Information about level 3 & level 4 will be shared later.

Will we get certificates?

After every Level 1 training session, an online assessment test will be taken. Additionally, a questionnaire will also be shared. After successful completion of the test and the survey form, the participation eCertificate will be issued to all the participants within 30 working days to their registered mail ids.

When will I get the results for the Level 1 assessment?

We will intimate you through your registered email once we cover 5 lakh participants in level 1.

Can we volunteer even if we don't move to level 2?

Yes. You can enroll as a volunteer with us by visiting our website <https://www.cyberpeace.org/join-us/>

Will all Level 1 training sessions presentations be the same?

Yes. The course content of each day will be same. So, one session is sufficient to attend for level 1 training. In all the level 1 training workshops we will cover the basics of cybersecurity and online safety, including topics like:

- Data Privacy and Digital Footprint
- CyberEthics and Responsible Behaviour
- Digital Wellbeing
- Cybercrime and Reporting

From where one can get more information about eSaksham project?

You can access all the details at <https://esaksham.cyberpeace.org/>.