

CYBERDOME TRAINING WORKSHOP

ETHICAL HACKING PARADE – 2016



Kerala Police in association with Technopark is planning to conduct a Hacking Parade- an Ethical Hacking Training Workshop on the 2nd of July, 2016 at Technopark Campus, Thiruvananthapuram. The Event is basically a Training workshop conducted by Cyberdome to train Police officers working in the various cyber cells of the State, Station House Officers and CyberDome volunteers in the latest issues in the cyber world- which includes Social Engineering, Ransomware, IPv6 Compatibility Issues, Cyber Warfare and Threat Intelligence.

In the Inaugural Function, to be attended by the Honourable Chief Minister, the following events will also be conducted.

1. Inauguration of Social Media Lab to Prevent Crimes against Women & Children on the net.
2. Inauguration of the new Website of Cyberdome
3. Inauguration of new Kerala Police Traffic Apps
4. Inauguration of the online portal of Kerala Police Circulars.
5. A competition of ethical hacking and training session with Government Officials, Police Officers, Banking Sector, etc.

High tech Social Media Lab in Cyberdome for Protection of women and children

Today in India we are going through a social media communication revolution. With various initiatives like digital India etc being popularized, the advent of the smart phone, the availability of Internet services around the country, all have ensured that almost everyone has a smart phone and is available on the social medium of communication. At its core, social media is a tool for communication that has become an integral part of daily life for people of all ages. Social media accounts for 22 percent of time spent on the Internet, and even among people age 65 and older—who are not generally considered prime users of new technologies—one in four people are now active on a social media website. The use of social media in rural India has grown 100 per cent in the year 2014, with 25 million people using the Internet to access Twitter and Facebook, according to IAMAI-IMRB report on social media. This social media revolution has also opened new avenues, new opportunities, new problems and new challenges for the law enforcement agencies. On the one hand it is a very positive tool in the hand of the police for better law enforcement and control of crime and on the other, it makes the crime scene wider and more complicated to handle. With Social Media becoming the major medium of Communication and the nature of crimes shifting from traditional to cyber crimes, it is very essential to open a new Social Media Lab for tackling all the challenges that the Social Media poses for the police department. This Social Media Lab will be opened in the CyberDome Project, and it will perform the following responsibilities.

1. As a Centre to Prevent Crime, particularly against women and Children.
2. As a Centre to assist in Investigation of Cyber Crimes against women
3. As a centre to prevent online pornography/ online prostitution
4. As a Centre to protect children/ women online.
5. As a Centre to Apprehend Absconding criminals, using social media
6. As a Tool to Engage the Community and for spreading awareness

7. As a Centre to counter False propaganda against the police
8. Using Social Media to Prevent, Respond to, and Investigate Riots
9. As a Tool to Effectively Manage Law and Order
10. As a Centre for citizens to report police abuse.
11. As a Tool for Predictive analysis of Crime
12. As a Centre for effective Rumour Management
13. As a centre for monitoring of Crowd gatherings using social media
14. As a Centre for Intelligence Gathering thru Social Media
15. As an Effective Centre for online spread of Community Policing

The **Kerala Police Cyberdome Website** will also be launched on this day, and it will be a platform for public private partnership to enhance cyber security and to ensure the members of the IT Industry / ethical hackers work in coordination with the police to prevent and detect cyber crimes. This will be the platform on which all the cyberdome volunteers, who have registered with us from around the Globe will work in a virtual office, providing us the solutions to the latest threats from cyber space.

Also Cyber dome in association with Strava Technologies Pvt. Ltd. has developed a new **Kerala Traffic Police Mobile App**, which will provide all information to the public on various traffic rules, traffic fines, information related to Traffic etc. It will be a medium where the public can directly register complaints on various Traffic violations which they personally witness on the roads. They can upload photos of traffic violations, know about traffic congestions through live updates and also pay traffic fines using these Apps, from their homes. The App is going to be a big boon for the Travelling public in Kerala.

Training - The main purpose behind the Workshop is to devise strategies with public private partnership to prevent hacking and misusing of our cyber resources. Every day we get new reports on, hacking of websites including banking websites, which

have become very common. The websites of Bangalore City Police, IRCTC, State Bank of Mysore, Bank of Bangladesh and even the Kerala Government website were hacked in the recent past and crores of worth rupees were stolen by the cyber criminals. As the Government of Kerala has declared the State to be fully digital and all the Government services are being made available on the net, it is very essential to ensure a proper security system to prevent hacking of our Government Websites. Hence Kerala Police in association with Technopark, is organizing this Ethical Hacking Workshop titled "Hacking parade" for establishing public private partnership to prevent such efforts from cyber criminals.

Finally, the **Online portal of Kerala Police Circulars** is an online portal wherein all the Circulars since 1956 of Kerala Police Department, will be available to the registered users at one click of the button. All officers in the Department will be given a user name and password and they can access the Circular from their mobiles, at their will.

All these five events will be inaugurated during the Programme by the **Hon'ble CM and the programme will be Presided over by SmtNalini Netto, and the State Police Chief as the Keynote speaker. Shri Safirullah, Director KSITM will offer felicitations at the Workshop, which will be held at Technopark Campus on 2nd July, 2016 at 0930 hrs.**

The Inauguration will be followed by Technical Sessions with Shri. P. Kumaraguru from IIT Delhi taking a session on Social Engineering, Technical Session on IPv6 and topics of Cyber Warfare and Threat Intelligence. A Technical Session will be held with the Cyberdome volunteers, for hands on experience on the latest cyber threats and strategies will be formulated to handle the current cyber crimes being registered and investigated by the Police

Activities already undertaken under Cyberdome.

1. Done VAPT (Vulnerability Assessment and Penetration Testing) on various Government websites and reported the vulnerabilities to the concerned departments for correction
2. Provided online protection to the Malayalam Film Industry by preventing online piracy of 8 new releases and by deleting all pirated uploads in matter of hours. A new software was made to detect such movie piracy online.
3. Hacked and Defaced 33 closed and open groups on facebook which were promoting pornography.
4. Detected and took legal action on two sites, promoting child pornography, based in Kerala and run by Malayalees.
5. Development of Software with IITKM for finding out the precise location of a mobile phone user.
6. Provided WiFi security for the 20th International Film Festival of Kerala 2015 conducted in December 2015 at Thiruvananthapuram.
7. Conducted Various workshops on "Social Media for Effective Policing" and on latest cyber security issues for officials and members of the public in Thiruvananthapuram.
8. Nodal Officer and team Conducted and several industry visits and meetings with industry leaders and experts, for collaboration in digital service delivery
9. In tie up with RBI started a new Nodal helpline office for prevention and detection of Bank frauds with particular reference to OTP frauds.
10. virtual policing and collecting information from the Cyberspace.
11. Social media analytics and monitoring Darknet for proactive security.

12. A Cyber Defence Corp has been setup with a group of Individuals experts from the Cyber Security Industry for cyber counter attacks and cyber forensics

13. A massive programme has been started for spreading cyber awareness online and through the schools.

Immediate Plans for the Future

-Can extend this initiative as a Cyber security task force of the state

-Online Cyber Crime / Vulnerability / Abuse Reporting System can be extended as Virtual Police Station concept to help public to get advantage from this initiative

-To expand this centre as a central physical security monitoring control room for Government as well as Private sector resources

- To extend the centre as full-fledged R&D center for effective policing by accrediting with some Universities

- To expand the centre to meet the International Standards of Cyber security by hiring more professionals from Industry.

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