Cyber Security Program by Sinhgad Institutes with Pune Cyber Police

In pursuit of the goal to keep Pune Digitally Safe, Cyber Police of Pune have been rendering yeomen service by conducting numerous programs and initiatives to make citizens more aware as well keep themselves updated and well informed. A one-day session titled: "Cyber Threats & Security Measures Awareness Program" was conducted. This initiative was taken by DCP Bhagyashri Navtake and officers of Cyber Police Station Pune in association with Sinhgad Institutes on Tuesday 23 November 2021. Prof. Vina Lomte HOD of Computer Engineering Department, Prof. Sonal Fatangare along with 5 students of Computer Engineering Department of RMD Sinhgad School of Engineering Warje conducted this program. The student team comprised of Pratik Jadhav and Shubham Patil from Final Year and Harsh Deshpande, Abhijit Pachpute and Ruchira Rajage from Third Year of Computer Engineering Department.

The program was coordinated by Sr. Police Inspector D.S Hake and Police Inspector S. Mali of Cyber Cell Pune. After the initial welcome address, Prof. Vina commenced the session with detailed inputs on cyber-attacks and steps to prevent such attacks. The exponential growth of internet connections and use of smart phones has led to increase in cybercrimes. With emerging technologies new cyber-attack patterns are also emerging using various platforms such as social media, cloud computing and so on. The vulnerabilities in the existing hardware, software and network layers need to be critically examined, she explained. E-mail of the victim is hacked to get the password by using various tools such as sending phishing e-mails, unsolicited emails, spam mails that have malwares embedded in them. Once malware is embedded into the system of the victim, the cyber criminals can use many different aspects of vulnerabilities in the system to execute their criminal activities. Social Engineering frauds using fake social media accounts, OLX, QR Code frauds, using fake websites etc. are used for conducting cyber-crimes. The large amount of concentrated data stored in cloud storage devises are a huge attraction for cyber criminals and they use technology to hack into this constantly growing data. These were discussed in detail.

Thereafter, Pratik Jadhav & Shubham Patil, Final Year Computer Engineering students of RMD Sinhgad School of Engineering demonstrated by conducting live practical hacks. Pratik also presented details on google dorking, a technique used for google hacking whereby google search and other google applications are used to find security holes for hacking the system of the victim. He spoke about how CC TV cameras can be hacked and demonstrated by live hacking of the CC TV Cameras online. Shubham presented about Sim Cloning and prevention measures of the same, he also demonstrated Android Hacking and Trojan virus like Key Logger.

Later Prof. Sonal Fatangare from Computer Engineering Department of Rmd Sinhgad School of Engineering explained about different Networking models like OSI Model and types of attacks that can be done on the same. Preventive measures were also discussed for the same.

The Officers were delighted to know the technical terms and emerging trends in cybercrime.

Having successfully completed an internship with the Cyber Police, Third Year student Ruchira was already aware of FIRs and IT related cases and how the cyber police was using technology to solve such cases which helped in delivering the needed program to assist the officers in fighting cyber-crime.

The program concluded by DCP Bhagyashri Navtake thanking the Faculty and Students from Sinhgad Institutes for facilitating the Police officers with their valuable inputs for fighting cyber-crime to achieve their goal of making Pune city digitally safe.

Prof. M.N. Navale Founder President of Sinhgad Institutes congratulated Principal RMD Sinhgad School of Engineering & Seminar team of Computer Engineeiring Department for the success of the program. How students use their learning towards solving sensitive problems of the society such as cybercrimes by collaborating with cyber police cells is laudable. It is such initiatives involving practical use of learning that make students of Sinhgad Institutes stand apart from others.