Proposed Event The Eye, CSEA

Proposal Document by 21Z202 ("Aaditya Rengarajan")

### **Brief**

The "TRIX" Series will be a series of Workshops held biannually, and will be a Workshop event, aiming to bring everyone into the field of Cybersecurity. "TRIX-I" will be held in the latter half of 2022, and will continue as "TRIX-II" and "TRIX-IV" in 2023, and so on.

### Aim of the Event

To spread awareness on Cybersecurity, and provide basic training.

# **Target Audiences**

All Students and Faculty in PSG College of Technology. Specifically, AMCS, CSE and ECE Departments.

### **Duration**

3 Sessions lasting 1 hour each, with a 10-minute break in between each session. Preferably hosted post-12PM.

# **Special Requirements**

- Requirement to provide exemption for attendees and organizers (at least members from the CSE Department), in order to motivate participation.
- The event must be held in a computer laboratory or a place with power sources, as attendees will be required to use their personal computers.
- Network Connection should **preferably** (not obligatory) be provided to the audiences.

### **Details**

The Workshop will be split into 4 sessions.

### **Session 1**

10 Minutes:- Opening Keynote delivered by Aaditya

- Introduce Club, Thank HOD and Faculty Advisors
- Share a few words about where we will be by the end of this month, and where we will be by the end of this semester
- Thank the audience for joining in and introduce workshop sessions, topics and speakers.

20 Minutes: - Why Cybersecurity is Important As an Individual [SOORYA]

Blue Whale, Fire Fairy, Salt+Ice Challenge. The science of addiction, Body Dysmorphia Disorder, Alicia Navarro.

10 Minutes: - A Sample Security Incident, and SOCs [SOORYA]

Uber and Rockstar Hack

10 Minutes:- IT Laws [SOORYA]

IT Act Section 43,44,45,65,66,67,68,69,70.

Complaint Procedure – cybercrime.gov.in and Cyber Cells in India.

10 Minutes: - Q&A Session + Break [SOORYA]

### Session 2

20 Minutes:- CPS/IoT/SCADA and a live attack on a simulated system [AADITYA]

Hands-On Session. Aaditya monitors Petrochemical Plant Pressure Gauge Levels (shown on screen) whilst Soorya assists volunteer hacks into CPS and overloads pressure.

Talk about how Bhopal Gas Accident could've been a cyber-attack.

Talk about Ukraine Power Grids.

10 Minutes:- XSS Attacks and a live sample XSS Attack [DHANUSH]

Hands-On Session. Use one endpoint of our server to steal cookies from another endpoint.

10 Minutes:- the Wireshark Tool [AADITYA]

Hands-On Session. Steal own password from self-hosted server which supports HTTP and HTTPS. Explain difference using Wireshark.

10 Minutes:- Viruses and Ransomware, A Ransomware Case Study [DHANUSH]

What are Viruses, Worms, Ransomware, etc. Eternal Blue giving birth to EternalRocks and WannaCry Case Study.

10 Minutes: - Q&A Session [DHANUSH ASSISTED BY AADITYA]

### Session 3

Session 3 will introduce the audiences to Dark Web and Dark Web Monitoring. It will also give a brief on Networking Models and Topography, and the security aspect in networks. It will also demonstrate some social engineering.

5 Minutes:- Proxy [AADHITHYASHRI]

Try accessing ThePirateBay using normal internet vs using proxy.

10 Minutes: - Dark Web and TOR [AADHITHYASHRI]

Hands-On. Install Brave Browser to access WikiLeaks using TOR, and talk about piracy of content.

5 Minutes: - Dark Web Monitoring [DHANUSH]

Explain Dark Web Monitoring in brief.

10 Minutes: OSI Model and TCP/IP Model [AADHITHYASHRI]

Explain the 7 layers of OSI Model, as well as the layers of TCP/IP Model. Interactive Session.

10 Minutes:- NMap [AADHITHYASHRI]

Hands-On Session. Use NMap.online tool to explain what NMap is and its functions.

10 Minutes :- ZPhisher and Phishing Attacks with sample live attack [DHANUSH]

Phish volunteers for passwords. Also explain IDN Homograph attacks and how IDN Homographs can be used in combination with phishing.

10 Minutes: - Q&A Session

10 Minutes:- Closing Keynote delivered by Dhanush

- Assign homework for audience relevant to session learnings
- Thank the audience and speakers for being with us
- Thanks for making our first time the best time
- Thank the faculty advisors for assisting organize a great event