



TEQIP - III Sponsored International Conference on Instrumentation and Control Engineering

(ICECON-2019) 19th - 21st December 2019

PRE-CONFERENCE WORKSHOP ON

ICS / IIoT (OT) CYBERSECURITY

19th December 2019



ABOUT THE WORKSHOP

Cybersecurity is seeping into everyday life and in all facets. It was manageable till it was impacting IT systems and intangible aspects of day to day activities, such as Facebook account hack (although damages can't be neglected). However, recent times have witnessed tremendous surge in cybersecurity impact on ICS/ IIoT systems, thus touching very critical and tangible aspects of our society. The systems in question belongs to national critical infrastructure which are backbone to our economy, nuclear energy installations and systems guarding national security. ISA, Bangalore brings to the academia, industry and individuals one day workshop on ICS/ IIoT (OT) Cybersecurity. The objective of the workshop is to provide quick overview of concepts of OT cybersecurity, the ingress of IT into OT and thus posing as new vector i.e IT-OT convergence, segregation of networks/ devices/ software in industry environment, challenges faced by OEMs (suppliers), integrators and end-users (owners). The second half of the day will be covered with live demo of hacks on PLC and protocols to demonstrate the impact and ease of achieving these exploits. The practical demonstration will include deep dive into some of the concepts of ICS and exploitation.

COURSE CONTENTS

The key topics of the course are:

- * Introduction to OT cybersecurity
- * Introduction to IT-OT convergence
- * Evolution of ICS protocols and ICS devices
- * Introduction of ISA/ IEC 62443
- * Case Studies - Insecure protocols/ devices/ infamous hacks
- * Practical demonstration of ICS hacking

WHO MAY BENEFIT FROM THE COURSE?

Faculty & Students from any branch of Engineering or Science, Researchers, and Industrial Practitioners who want to learn about ICS cybersecurity can attend and benefit from this course. Familiarity with basic concepts of cybersecurity is desirable.

ABOUT THE SPEAKER



Prashanth A C is a Lab Manager and Principal Technical Expert for GlobalCybersecurity Lab of Schneider Electric. This lab is a single nodal unit to pentest and cyber-strengthen all the products of Schneider Electric for sell. He is an ex Lieutenant Commander (Indian Navy) and was Deputy Director at Directorate of Information Warfare, Indian Navy (Min of Defence), New Delhi. He joined Schneider in 2017 and is handling team of 25 hackers. He has 13+ years of experience in offensive and defensive cybersecurity.

Priya C Shekar is a Technical Expert for pentest at Global Cybersecurity Lab of Schneider Electric. She has extensive experience of 11+ years of experience in pentesting cloud and mobile application as part of ICS projects of various complexity. She has multiple international certifications related to information security and has been awarded Edison Expert Level 1 in Schneider Electric for achievement in R&D.



VENUE

NIT, Trichy.

INSTRUCTIONS

All participants must bring their laptops with MS-Windows 10; these are required for all the hands-on sessions.

Registration Fee		Before 05.12.19	After 05.12.19
		Pre Conference Workshop	Faculty / Industry / R&D Organization
Research Scholar / Student	Rs. 2000		Rs. 3000

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