**CoE CNDS, VJTI**

**Knowledge Transfer Details**

|  |  |  |
| --- | --- | --- |
| 1 | Project name | SCADA FORENSICS |
| 2. | Project group Member/s | AYUSH SHAH,  ATHARVA MARATHE,  SARVESH YENARKAR,  GURKIRAT NAGPAL |
| 3. | PhD Mentor | PRANITA BINNAR |
| **Details**  **(Fill the Following details, use IEEE bibliography style)** | | |
| a | E-Books | Enisa.europa.eu. 2020. Introduction To Network Forensics Handbook. [online] Available at: <https://www.enisa.europa.eu/topics/trainings-for-cybersecurity-specialists/online-training-material/documents/introduction-to-network-forensics-handbook.pdf/view> [Accessed 22 August 2020]. |
| b | Research Papers & Lab Publications | **References** [1]"Statistical Analysis of Nearest Neighbor and Cluster Analysis Methods for Anomaly Detection" [Online]. Available: https://arxiv.org/abs/1907.03813. [Accessed: 22- Aug- 2020]  [2]"Unsupervised Anomaly Detection Using an Optimized K-Nearest Neighbours Algorithm". Available: https://www.semanticscholar.org/paper/Unsupervised-Anomaly-Detection-Using-an-Optimized-Prerau-Eskin/2636240c18d7a4f3a321d1b6f68e8cadd1409a76. [Accessed: 22- Aug- 2020]  [3]R. Kwitt and U. Hofmann, "Unsupervised anomaly detection in network traffic by means of robust PCA.", *IEEE*, 2007 [Online]. Available: https://www.semanticscholar.org/paper/Unsupervised-Anomaly-Detection-in-Network-Traffic-Kwitt-Hofmann/0393afbace434e0e0a7d59d982440545df392a23/figure/0. [Accessed: 22- Aug- 2020]  [4]"Using an Ensemble of One-Class SVM Classifiers to Harden Payload-based Anomaly Detection Systems", *IEEE* [Online]. Available: https://ieeexplore.ieee.org/abstract/document/4053075. [Accessed: 22- Aug- 2020] |
| c | Relevant materials like patents, white papers, information brochure, information websites | <https://www.enisa.europa.eu/>  <https://ics-cert-training.inl.gov/> |
| d | Project Reports and FYP reports of past students | [1]M. Khadpe, "Malware Injection in Operational Technology Networks", 2020.  [2]A. Rajapkar, "] Design of Intrusion Prevention System for OT Networks Using Deep Neural Networks", 2020. |
| e | List of Modules of previous batches repeated till now | SANDBOX ENVIRONMENT |
| f | Earlier Computer Codes and earlier work |  |

**Details about:**

**Work Done by Previous Batches practiced/re-tested by you/group**

|  |  |  |
| --- | --- | --- |
| **Module No.** | **Description of Module** | **Remark** |
| **1** | [1] Malware Injection in Operational Technology Networks by Mayuri Khadpe Department of Electrical Engineering Veermata Jijabai Technological Institute. | **Paper read and understood**  **Not retested** |
| **2** | [2] Design of Intrusion Prevention System for OT Networks Using Deep Neural Networks by Akshay Rajapkar Department of Electrical Engineering Veermata Jijabai Technological Institute. | **Paper read and understood**  **Not retested** |

NOTE –

Every document should be in IEEE bibliography format.

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