

A Report on Industrial Visit to
“Society for Electronic Transactions and Security (SETS)”
Organized by Department of Computer Science & Engineering- Cyber Security
on 07.11.2025



Report Submitted by: Mr. Gowtham A, Assistant Professor, Department of CSE(Cyber Security).

Faculty Coordinators: Mr. Nagarajan B, Mrs. Fathima Begum, Mr. M. Mutharasu, Mr. T.N. SivaKumar, Mr. Gowtham A

Total No. of Participants: 135 Students

Mode of Conduct: Offline.

Report Received on 10.11.2025: One-day Industrial Visit to Society for Electronic Transactions and Security (SETS) was organized for the III Year B.TechCSE(CS) students on 07th August 2025. The Industrial Visit to NARL started at 01.00 AM and reached SETS by 10.00 AM. The students along with faculty members visited the SETS facilities between 10.00 AM to 01.00 PM.

ABOUT SETS:

Society for Electronic Transactions and Security (SETS) is an initiative of the Office of the Principal Scientific Adviser (PSA) to the Government of India, an idea to form a specialized organization, in the area of information security was conceived of by Dr. A.P.J. Abdul Kalam and implemented by Dr. R. Chidambaram through the Office of the PSA.

It was set up for the purpose of nucleating, sensitising and developing provable security designs that can protect the information wealth of the country and that can be used in applications of Information Security products and services.

SETS was registered as a non-profit society under the Societies Act of 1860 in May 2002 and established in the Public-Private Partnership mode. The corpus of SETS was generated through one-time membership fees from Government, Public and Private Sector Corporate, R&D, and academia. The Government of Tamil Nadu provided a 2.9 acre land at M.G.R. Knowledge city, CIT Campus, Taramani, Chennai under a long term lease agreement for the construction of the building. An Advanced Facility for Information Security and Cryptology (AFISC), has been created for SETS with funding from Government of India, at a cost of Rs.24.5 Crore. The AFISC is targeted to become a Centre of Excellence in the field of Information Security and Cryptology.

Restructuring of SETS was undertaken in 2014 and its MoA was amended with the consent of the then members of the General Body of the Society drawing new members from government and public sector organizations at secretary level – mostly ex-officio. The Modified MoA, Rules and Regulations and Bye-laws were submitted to the Registrar of Societies at Delhi and got registered in 2015.



Places Visited in SETS:

SETS has state-of-art R&D Infrastructure for pursuing Cybersecurity Research including Cryptology & Computing lab, Hardware Security & Side-channel Analysis lab, Quantum Security Research Lab and Cyber Defense Lab for network security.

SETS building is constructed upon 3 acres of land provided by Government of TamilNadu at Chennai and total area of 50,000 Sq.ft had been constructed. Facilities include auditorium for events, class-room facility for hands-on training, WiSCER Lab for showcase of solutions, canteen and others.

The visit to the **Society for Electronic Transactions and Security (SETS), Chennai**, provided valuable exposure to cutting-edge research and technologies in the field of cybersecurity and electronic transactions. Established by the Government of India in collaboration with the Department of Electronics and Information Technology (DeitY), SETS functions as a premier R&D institution focusing on information security, cryptology, and network protection.

During the visit, participants were briefed about the organization's mission to develop indigenous technologies that ensure secure digital communication and data protection in sectors such as defense, finance, and governance. The experts at SETS explained their ongoing research in **cryptographic algorithms, network security protocols, cyber threat detection systems, and quantum-safe cryptography**. Demonstrations of real-time cybersecurity tools and secure communication frameworks illustrated how research outcomes are applied to protect national information infrastructure.

Students also interacted with scientists and researchers who emphasized the importance of ethical hacking, cyber forensics, and vulnerability assessment in today's digital ecosystem. The visit highlighted the collaboration between academia, industry, and government for building secure cyber environments.

Overall, the SETS visit was highly informative and inspiring. It helped participants understand the practical applications of cybersecurity concepts, motivated them to pursue research and innovation in information security, and showcased India's growing capability in developing indigenous solutions for safeguarding electronic transactions and digital assets.



Conclusion:

The students observed the working environment of the SETS by undergone the visit. They experienced the usage of the technology in practical aspects. The visit was more interactive with effective learning and the students were made to learn the innovative technologies used in SETS. We extend our sincere thanks to the Management, Vice-Chancellor, Principal, Head of the Department and Transport department for their support in arranging & organizing the industrial visit.

Outcomes of Industrial Visit:

- Students gained knowledge on real time Networks in research area and other problem solving strategies.
- Students explored about Hardware Security and its practical functions.
- Students gained knowledge on real-time application areas of Cryptography and Quantum Cryptography.
- Students understood the cyber security involvement in research and development.