VIT

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

One Day National Workshop on Next-Generation Vehicular Communication Security

(Hybrid Mode)

12th June 2026

Organized by

School of Computer Science and Engineering (SCOPE)

Vellore Institute of Technology
Vellore – 632 014

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Head – Department of Database Systems, SCOPE

Coordinators:

Dr. S M Farooq,
Assistant Professor, Department of Computational Intelligence, SCOPE.

Dr. Konatham Sumalatha,
Assistant Professor, Department of Database Systems, SCOPE.

CONTENTS OF THE PROGRAMME

- Introduction to VANETs, applications, architecture, and security requirements.
- Traditional security approaches and Machine Learning techniques for VANET protection
- Intrusion Detection Systems (IDS), case studies, and emerging research trends
- Hands-On session on building ML Models for attack detection.
- Applications, Challenges, and Future Trends in VANET Security.

Target Audience:

Faculty members, Research Scholars, Industry Professionals (Cybersecurity & AI domain), UG and PG students

Registration:

The participants are requested to register for the workshop through the following link

https://vit.ac.in/event/one-day-national-workshop-on-next-generation-vehicular-communication-security

Registration fee (Including GST):

Faculty and Industry Professionals: Rs. 400/-

Research Scholars: Rs. 300/-

UG/PG Students: Rs. 200/--

Last date for registration: 11.06.2026

ABOUT VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. Our Memoranda of Understanding with various international universities are our major strength.

ABOUT SCOPE

The school has one of the best infrastructures including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices employ innovative approaches in programming and problem solving, and create Large Scale Software Systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies.

The school has formed the following technical departments:

- Department of Analytics
- Department of Computational Intelligence
- Department of Database Systems
- Department of Software Systems
- Department of Information Security
- Department of IoT
- Department of Quantum AI

ABOUT WORKSHOP

Vehicular Ad Hoc Networks (VANETs) play a crucial role in intelligent transportation systems by enabling communication between vehicles and infrastructure. Despite their advantages, VANETs face significant security challenges due to their dynamic and decentralized nature. This workshop provides a comprehensive understanding of VANET security issues and demonstrates how Machine Learning techniques can be applied to detect and mitigate cyber threats effectively.

OBJECTIVES OF THE WORKSHOP

- To introduce VANET architecture and communication models
- To understand security requirements and challenges
- To analyse various types of cyber-attacks in VANETs
- To explore Machine Learning techniques for threat detection
- To provide practical hands-on experience in building security models

SPEAKERS

Dr. Praveen R
Assistant Professor,
Department of Computer Science and Engineering
National Institute of Technology,
Puducherry.

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