



# **SNS COLLEGE OF ENGINEERING**

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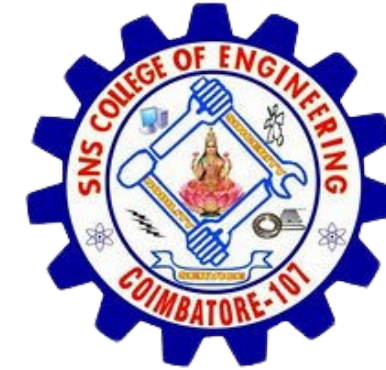
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IOT Including CS&BCT**  
**COURSE NAME : DISTRIBUTED LEDGER TECHNOLOGY**

**TOPIC: Blockchain in Defense**



## Introduction to Blockchain and Cybercrime Prevention

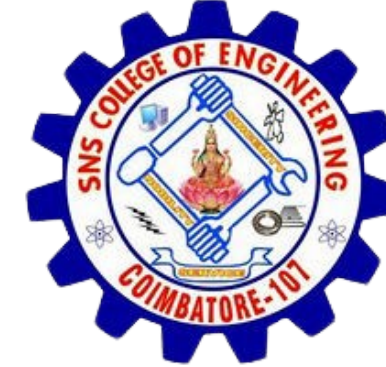
The defense sector requires high levels of security, transparency, and trust. Blockchain provides a secure, tamper-proof way to manage military operations, logistics, and communication. Its decentralized and immutable structure helps prevent cyberattacks, unauthorized data access, and supply chain fraud—making it a strategic tool for national security.



## Secure Communication and Data Integrity

Military communications are often targeted by hackers and foreign threats. Blockchain can protect sensitive communications and classified data by:

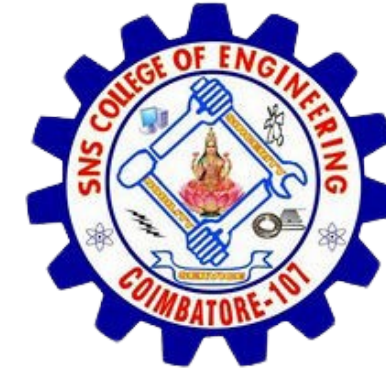
- Encrypting messages and storing them across a decentralized network, making interception extremely difficult.
- Ensuring data integrity—any unauthorized change in logs or documents is immediately visible and traceable.
- Preventing data leaks in intelligence operations, troop movement records, and mission briefings.



## Supply Chain Management in Defense

Blockchain can strengthen defense logistics by ensuring transparent and verifiable supply chains.

- Tracks every component or weapon system part from manufacturer to deployment.
- Detects counterfeit parts or materials and ensures authenticity through immutable records.
- Reduces delays and fraud by allowing real-time tracking of assets like vehicles, aircraft parts, and ammunition.



## Defense Contracts and Cybersecurity

Blockchain also brings efficiency and accountability in defense project management and cybersecurity.

- Smart Contracts can automate defense procurement and contractor payments only after successful delivery or milestone completion.
- Audit trails become easier and tamper-proof, reducing chances of corruption or mismanagement.
- Enhances national cybersecurity by acting as a resilient backbone for critical defense networks and systems.