

PractoCrypt

Cryptography in Practice

Five-Day Hands-On Training Programme on Cryptographic Algorithms & Implementation



13- 17 Oct, 2025



SETS, Chennai



10 AM - 4 PM

Training Objective

This five-day program provides a structured journey from fundamental cryptographic concepts to advanced post-quantum techniques, encompassing random number generation, hashing, authenticated encryption, and asymmetric cryptography. The learning experience is strengthened through practical implementations and live demonstrations.

Key Takeaway

- Cryptographic Schemes & Implementation
- Hands-on with Crypto Libraries
- Application Integration Skills
- Algorithm Selection & Evaluation
- IoT/Embedded Security & PKI Protocols
- Designing Custom Protocols

Target Audience

- Research Scholars in Cybersecurity & Cryptography
- Developers of Cryptographic Applications & Protocols
- Software & Hardware Engineers using Crypto Libraries
- Security Professionals & QA Teams in Cryptography
- Technical Leads & Engineers in PQC Migration

Coordinator

Mr T Santhosh Kumar
Scientist - C

Co-Coordiators

Dr Shashikant Pandey
Scientist - C

Samyuktha M
Scientist - C

Training Schedule

Day 1 - Basic Concepts |
CSPRNG | Hands-on Practical
Session on CSPRNG Concept

Day 2 - Hashing Algorithms |
SHA-3 & BLAKE2s Concepts |
Hands-on Practical Session

Day 3 - Symmetric Crypto
|Authenticated Encryption |
CHACHA20-POLY1305 & ASCON
| Hands-on Practical Session

Day 4 - Asymmetric Crypto |
ECC (DSA and KEX) | ECDSA-
ECDHE-Curve25519 Hands-on
Session + CTF Game

Day 5 - PQC | ML-DSA & ML-
KEM Hands-on Practical
Session | TLS demo using ML-
[DSA & KEM]

Fee Details

₹10000 + 18% GST

Venue

SETS Chennai

Contact Details

Technical Coordinator

☎ 044-66632520



setschennai@setsindia.in

Coordinator

☎ 044-66632506

Registration Link

<https://forms.gle/eh1kdHzg6j1yeLvE6>

For more details, please visit

<https://setsindia.in/practocrypt>

Organized by

Society for Electronic Transactions and Security (SETS)

(Under the O/o Principal Scientific Adviser to the Government of India)

Cybersecurity Research and Development Organisation

MGR Knowledge City, CIT Campus, Taramani, Chennai, Tamil Nadu 600113

www.setsindia.in

