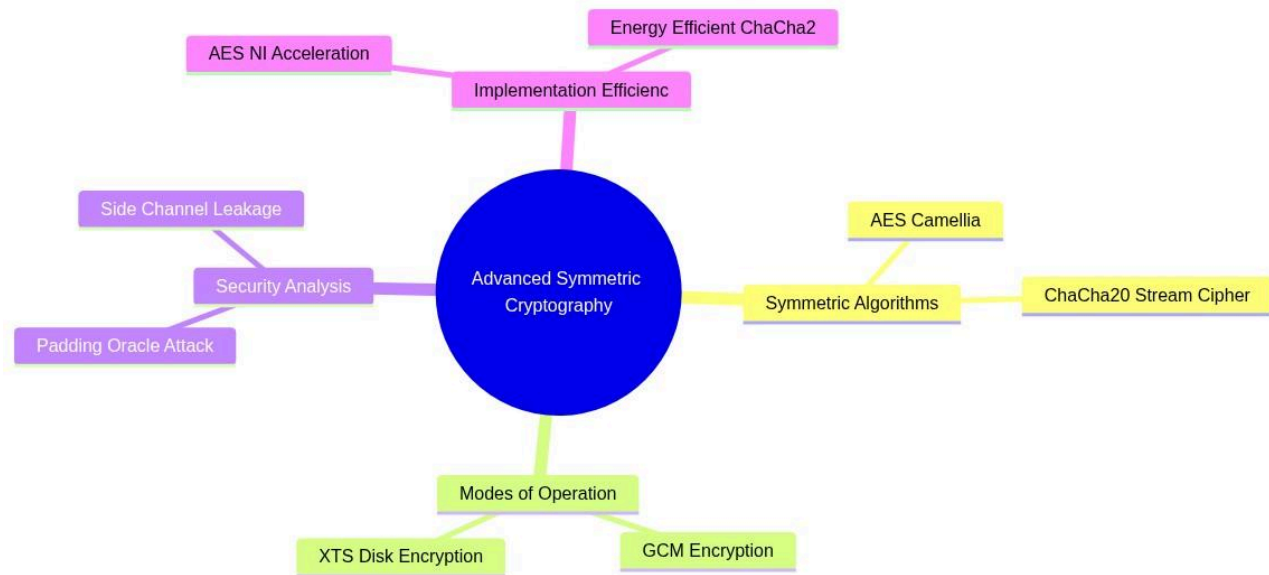


Graduate Certificate in Cryptography

Advanced Symmetric Cryptography



mindmap

```

root((Advanced Symmetric Cryptography))
  Symmetric Algorithms
    AES Camellia
    ChaCha20 Stream Cipher
  Modes of Operation
    GCM Encryption
    XTS Disk Encryption
  Security Analysis
    Padding Oracle Attack
    Side Channel Leakage
  Implementation Efficiency
    AES NI Acceleration
    Energy Efficient ChaCha2
  
```