Lightning Talks Session 1:

Trust Management in PKI  
Priyadarshi Singh  
The talk included the various concerns about the deployment issues of PKI. The talk highlights over the X.509 Trust Model and explained the trust management in PKI. It also brought out the propagation of trust, PKI and trust transitivity and trust extensions in X.509 certificates.

Use of BlockChain in Telecare Medicine  
Chaitanya Nayak  
The talk explained about the Telecare Medical Information System (TMIS) along with its architecture. The talk also highlighted over the Blockchain technology and its application in TMIS.

Certificate Trust Chain Validation Issue  
Sunil Kumar Yadav  
The talk explained about the various issues that occurs in the certificate chains in the PKI implementation.

DNA Cryptography: Contributions to the Information Security, Bio-PKI its Application and Challenges  
Sreeja C S  
The talk mentioned how DNA Computing is used in DNA Cryptography like Symmetric, Asymmetric, Pseudo DNA Cryptography and DNA Steganography. The talk also highlighted the DNA based Authentication and its use with PKI in various applications and challenges.

X.509 Certificate – Format and Details  
Abhijit Kumar  
The talk explained about the format of the X.509 Certificate with each and every fields explained. The talk also highlighted over the comparison of self-signed certificates and its details.
Lightning Talks Session 2:

Importance of Session Key in Remote User Authentication

*Dr. R Madhusudhan*

The talk presented the background knowledge about the Authentication and Session Key, which is a limited time of secure communication between two systems, and how it should be maintained securely.

Static Program Analysis of JavaScript Cryptographic Libraries.

*Gopinath P*

The talk presents about the Software issues and flaws of any application and how often those flaws are found and fixed. The Static Program Analysis takes the code, extract it and does multiple intermediate representations like names Database/Symbol table, abstract syntax tree, control flow graph and call graph, then it analyses it and finally the results are shown to the user. The talk highlighted over a JavaScript Static Analysis Report Generator called **Plato**, which generates an interactive report compromising of maintainability score, lines of code and estimated error count.

eSign Convergence with global standards eIDAS/DSS

*Manish K Soni*

The talk described the various building blocks for the cloud based signing, and the talk explained the eSign workflow for signing. The talk highlighted over the eIDAS/DSS cloud based signing approaches and the changes needed in the current system. It presented the summary of the OASIS Digital Signature Services.

PKI Based Applications: e-Mudhra

*V Srinivasan*

The talk mentioned why PKI is required for Identity and Authenticity and its usage. The talk also mentioned how globally PKI is growing. The talk also presented the background and brief of e-Mudhra which is a Licensed Certifying Authority in India.
PKI Global Trends
Amoghi Ranade
The talk presented the study carried out by Thales Security and Ponemon Institute on the usage of PKI globally. The talk brought out the various practices to secure PKI and how HSMs are used. The talk highlighted over the increasing influence of the Internet of Things (IoT) in PKI.

PKI in Danish Healthcare
Neelanarayanan V
The talk described the Danish healthcare IT which included the MedCom which is a Danish Centre for Health Telematics and National Board of Health for Denmark which developed the data model and terminology server for the health care system. The talk presented how the healthcare sector is connected in Denmark and how PKI is implemented in Denmark. It highlighted over the user authentication in Danish health system.

PKI in e-Governance
Sandeep Singh Rawat
The talk mentioned how we are evolving towards e-Governance which includes the transformation of information from paper to digital, the connectivity is ubiquitous and the transactions can be done anywhere anytime. The talk highlighted over the e-Governance business dynamics and what are the threats that are involved with the busuness and how to take precautions and be aware about it.